STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 141196

TO: Alton Pryor **Location: 4a39/4c70** **Art Unit: 1616** **Tuesday, December 28, 2004** **Case Serial Number: 09/764829**	**From: Noble Jarrell** **Location: Biotech-Chem Library** **Rem 1B71** **Phone: 272-2556** **Noble.jarrell@uspto.gov**

Search Notes

Noble

Access DB# 141196

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Alton Pryor Examiner #: 74458 Date: 12/22/04
Art Unit: 1616 Phone Number ~~2~~ 2-0621 Serial Number: 09/764,829
Mail Box and Bldg/Room Location: 4A39 Results Format Preferred (circle): PAPER DISK E-MAIL
RE M

If more than one search is submitted, please prioritize searches in order of need.

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Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

search Composition comprising:

(1) Aluminium or Aluminium compound or Zirconium or Zirconium compound

(2) diethylenetriaminepentaacetic acid (DTPA) ✓ (or) triethylenetetraaminehexaacetic acid (TTHA), diethylenetriaminepenta(methylphosphonic acid (DTPMP) (or) ethanehydroxydiphosphonic acid (EHDP) (OR) ethylenediaminetetra(methylenephosphonic acid (EDTMP) (OR) hexamethylenediaminetetra(methylenephosphonic acid (EDDS) (OR) ethylenediaminedisuccinic acid (EDDS) (OR) ethylenebis[2-(2-hydroxyphenyl)glycine] (EDDHA)

(3) Combine (1) + (2)

****

STAFF USE ONLY

Searcher: A Noble

Searcher Phone #:

Searcher Location:

Date Searcher Picked Up:

Date Completed: 12/28/04

Searcher Prep & Review Time: 20

Clerical Prep Time:

Online Time: 60

PTO-1590 (5-01)

Type of Search

NA Sequence (#)

AA Sequence (#)

Structure (#)

Bibliographic ✓

Litigation

Fulltext

Patent Family

Other

Vendors and cost where applicable

STN 864

Dialog

Questel/Orbit

Dr.Link

Lexis/Nexis

Sequence Systems

WWW/Internet

Other (specify)

NOTE: See page 8 & 9 for clarity

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=> d his

     (FILE 'HOME' ENTERED AT 09:15:38 ON 28 DEC 2004)

     FILE 'HCAPLUS' ENTERED AT 09:15:50 ON 28 DEC 2004
L1             1 US20010046479/PN
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               E GB2000-1130/AP,PRN
L2             1 GB2000-1130/AP,PRN
               E GB2000-1131/AP,PRN
L3             1 GB2000-1131/AP,PRN
L4             1 L1-3

     FILE 'REGISTRY' ENTERED AT 09:17:37 ON 28 DEC 2004

     FILE 'HCAPLUS' ENTERED AT 09:17:40 ON 28 DEC 2004
L5               TRA L4 1- RN :        8 TERMS

     FILE 'REGISTRY' ENTERED AT 09:17:40 ON 28 DEC 2004
L6             8 SEA L5

     FILE 'WPIX' ENTERED AT 09:17:44 ON 28 DEC 2004
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               E GB2000-1130/AP,PRN
L8             1 GB2000-1130/AP,PRN
L9             1 GB2000-1131/AP,PRN
L10            1 L7-9

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FILE 'HCAPLUS' ENTERED AT 09:18:41 ON 28 DEC 2004
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FILE COVERS 1907 - 28 Dec 2004  VOL 142 ISS 1
FILE LAST UPDATED: 24 Dec 2004  (20041224/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d all l4

L4   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2001:545447  HCAPLUS
DN   135:111741
ED   Entered STN:  27 Jul 2001
TI   Antimicrobial deodorant containing transition metal chelators and
     antiperspirant actives
IN   Landa, Andrew Sjaak; Makin, Stephen Anthony; McKay, Victoria Anne
PA   Unilever PLC, UK; Unilever NV; Hindustan Lever Limited
SO   PCT Int. Appl., 38 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
IC   ICM  A61K007-32
     ICS  A61K007-38
CC   62-4 (Essential Oils and Cosmetics)
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    -------------------     --------
PI   WO 2001052804        A1    20010726    WO 2001-EP111           20010108 <--
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
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            LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
            SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU,
            ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
        RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
            DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
            BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
    CA 2396959          AA    20010726    CA 2001-2396959        20010108 <--
    BR 2001007689       A     20021119    BR 2001-7689           20010108 <--
    EP 1259215          A1    20021127    EP 2001-942542         20010108 <--
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           IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
    AU 772448           B2    20040429    AU 2001-28457          20010108 <--
    US 2001046479       A1    20011129    US 2001-764829         20010117 <--
    ZA 2002005100       A     20030904    ZA 2002-5100           20020625 <--
PRAI GB 2000-1130       A     20000118  <--
    GB 2000-1131        A     20000118  <--
    WO 2001-EP111       W     20010108
CLASS
 PATENT NO.      CLASS  PATENT FAMILY CLASSIFICATION CODES
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 WO 2001052804   ICM    A61K007-32
                 ICS    A61K007-38
 US 2001046479   ECLA   A61K007/32; A61K007/32M                          <--
AB   Disclosed are antimicrobial products comprising an antiperspirant active
     and an amount of transition metal chelator sufficient to enhance the
     deodorancy performance of said antiperspirant active.  The transition
     metal chelator salt improves the antimicrobial performance of the
     antiperspirant active and the two components can be co-formulated.
     Particular products are antiperspirant deodorant compns.  Preferred
     chelator salts have high affinity for iron (III).  A stick deodorant
     antiperspirant contained AZAG 25, talc 3.2, stearyl alc. 14, hydrogenated
     castor oil 4, PEG-8 distearate 1, DTPA 1, poly(hexamethylene biguanide)
     stearate 0.215, and volatile silicone DC 245 q.s. to 100 %.
ST   antiperspirant aluminum zirconium DTPA chelator deodorant
IT   Antiperspirants
     Chelating agents
     Deodorants (personal)
        (antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
IT   Transition metals, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
IT   Deodorants (personal)
        (sprays; antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
IT   Deodorants (personal)
        (sticks; antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
IT   20074-52-6, Ferric ion, biological studies
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
IT   67-43-6, DTPA   869-52-3, TTHA   1327-41-9, Aluminum chlorohydrate
     3380-34-5, Triclosan   4602-84-0, Farnesol   190606-35-0, AZAG
     217631-98-6
     RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
     (Uses)
        (antimicrobial deodorant containing transition metal chelators and
        antiperspirant actives)
RE.CNT  8     THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Colgate Palmolive Co; WO 9843604 A 1998 HCAPLUS
(2) Motley, C; US 5516511 A 1996 HCAPLUS
(3) Motley, C; US 5849276 A 1998 HCAPLUS
(4) Procter & Gamble; EP 0483426 A 1992 HCAPLUS
(5) Procter & Gamble; WO 9956717 A 1999 HCAPLUS
(6) Sane, J; US 5705171 A 1998
(7) Sane, J; US 5725846 A 1998 HCAPLUS
(8) Sane, J; US 5939055 A 1999 HCAPLUS


=> b reg
FILE 'REGISTRY' ENTERED AT 09:18:48 ON 28 DEC 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 26 DEC 2004 HIGHEST RN 802853-20-9
DICTIONARY FILE UPDATES: 26 DEC 2004 HIGHEST RN 802853-20-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

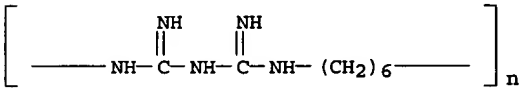
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d ide l6 tot

L6 ANSWER 1 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **217631-98-6** REGISTRY
CN Octadecanoic acid, compd. with poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Poly(iminocarbonimidoyliminocarbonimidoylimino-1,6-hexanediyl), octadecanoate (9CI)
MF C18 H36 O2 . x (C8 H17 N5)n
PCT Polyother, Polyother only
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); USES (Uses)

CM 1

CRN 28757-47-3
CMF (C8 H17 N5)n
CCI PMS



CM 2

CRN 57-11-4
CMF C18 H36 O2

$HO_2C-(CH_2)_{16}-Me$

4 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 2 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **190606-35-0** REGISTRY
CN AZAG (9CI) (CA INDEX NAME)
ENTE An antiperspirant
MF Unspecified
CI MAN
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: BIOL (Biological study); PROC (Process); USES

(Uses)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 3 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **20074-52-6** REGISTRY
CN Iron, ion (Fe3+) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Fe3+
CN Ferric cation
CN Ferric ion
CN Iron (Fe3+)
CN Iron ion(3+)
CN Iron trivalent ion
CN Iron(3+)
CN Iron(3+) ion
CN Iron(III) cation
CN Iron(III) ion
MF Fe
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CAPLUS, CASREACT, CHEMINFORMRX, CIN, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, PIRA, PROMT, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

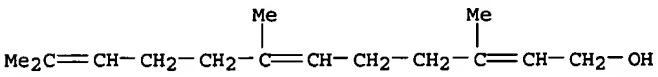
Fe^{3+}

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10167 REFERENCES IN FILE CA (1907 TO DATE)
653 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
10190 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 4 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **4602-84-0** REGISTRY
CN 2,6,10-Dodecatrien-1-ol, 3,7,11-trimethyl- (8CI, 9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Farnesol (6CI)
OTHER NAMES:
CN 3,7,11-Trimethyl-2,6,10-dodecatrien-1-ol
CN Farnesyl alcohol
CN FCI 119a
CN Nikkosome
CN NSC 60597
FS 3D CONCORD
MF C15 H26 O
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties)

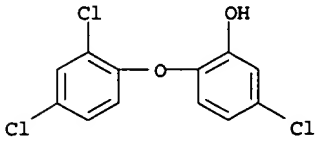


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1755 REFERENCES IN FILE CA (1907 TO DATE)
53 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1764 REFERENCES IN FILE CAPLUS (1907 TO DATE)
17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 5 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **3380-34-5** REGISTRY
CN Phenol, 5-chloro-2-(2,4-dichlorophenoxy)- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 2',4',4-Trichloro-2-hydroxydiphenyl ether
CN 2',4,4'-Trichloro-2-hydroxydiphenyl ether
CN 2'-Hydroxy-2,4,4'-trichlorodiphenyl ether
CN 2,2'-Oxybis(1',5'-dichlorophenyl-5-chlorophenol)
CN 2,4,4'-Trichloro-2'-hydroxydiphenyl ether
CN 2-Hydroxy-2',4,4'-trichlorodiphenyl ether
CN 3-Chloro-6-(2,4-dichlorophenoxy)phenol
CN 4-Chloro-2-hydroxyphenyl 2,4-dichlorophenyl ether
CN 5-Chloro-2-(2,4-dichlorophenoxy)phenol
CN Aquasept
CN Bacti-Stat soap
CN Cansan TCH
CN CH 3565
CN CH 3635
CN DP 300
CN Gamophen
CN Irgacare MP
CN Irgacide LP 10
CN Irgaguard B 1000
CN Irgasan
CN Irgasan CH 3565
CN Irgasan DP 30
CN Irgasan DP 300
CN Irgasan DP 3000
CN Irgasan DP 400
CN Irgasan PE 30
CN Irgasan PG 60
CN Microban Additive B
CN Microban B
CN NM 100
CN Oletron
CN Sanitized XTX
CN Sapoderm
CN SterZac
CN TCCP
CN THDP
CN Tinosan AM 100
CN Tinosan AM 110
CN Triclosan
CN Ultra Fresh NM 100

CN Vinyzene DP 7000
CN Yujiexin
CN Zilesan UW
FS 3D CONCORD
DR 164325-69-3, 112099-35-1, 88032-08-0, 261921-78-2
MF C12 H7 Cl3 O2
CI COM
LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*, IFICDB, IFIPAT, IFIUDB, IMSDRUGNEWS, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, PS, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL, VETU
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**, WHO
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2131 REFERENCES IN FILE CA (1907 TO DATE)
42 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
2137 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 6 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **1327-41-9** REGISTRY
CN Aluminum chloride, basic (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Aluminum chloride hydroxide (8CI)
OTHER NAMES:
CN A 296
CN ACH 325
CN ACH 331
CN ACH 7-321
CN Aloxicoll
CN Aloxicoll LR
CN Aluminium hydroxychloride
CN Aluminol ACH
CN Aluminum chlorhydrate
CN Aluminum chlorhydroxide
CN Aluminum chloride hydroxide oxide, basic
CN Aluminum chloride oxide
CN Aluminum chlorohydrate
CN Aluminum chlorohydrol
CN Aluminum chlorohydroxide
CN Aluminum hydroxide chloride
CN Aluminum hydroxychloride
CN Aluminum oxychloride
CN Aquarhone
CN Aquarhone 18

CN Astringen
CN Astringen 10
CN Banoltan White
CN Basic aluminum chloride
CN Basic aluminum chloride, hydrate
CN Berukotan AC-P
CN Cartafix LA
CN Cawood 5025
CN Chlorhydrol
CN Chlorhydrol Micro-Dry
CN Chlorhydrol Micro-Dry SUF
CN E 200
CN E 200 (coagulant)
CN Ekoflock 70
CN Ekoflock 90
CN Ekoflock 91
CN GenPac 4370
CN Gilufloc 83
CN Hessidrex WT
CN HPB 5025
CN Hydral
CN Hydrofugal
CN Hyper Ion 1026
CN Hyperdrol
CN Kempac 10
CN Kempac 20
CN Kemwater PAX 14
CN Locron
CN Locron P
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for DISPLAY
DR 672263-85-3, 8012-66-6, 11097-68-0, 167140-05-8, 162535-15-1, 56803-01-1, 56831-66-4, 64441-77-6, 101707-17-9, 114442-10-3, 135864-70-9, 37226-46-3, 79586-02-0, 143230-54-0, 144388-28-3, 84861-98-3, 32056-15-8, 39380-80-8, 245064-40-8
MF Unspecified
CI COM, MAN
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PDLCOM*, PIRA, PROMT, RTECS*, TOXCENTER, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

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3566 REFERENCES IN FILE CA (1907 TO DATE)
155 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3577 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L6 ANSWER 7 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **869-52-3** REGISTRY
CN 3,6,9,12-Tetraazatetradecanedioic acid, 3,6,9,12-tetrakis(carboxymethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [ethylenebis[[(carboxymethyl)imino]ethylenenitrilo]]tetra- (6CI, 7CI)
CN Glycine, N,N'-ethylenebis[N-[2-[bis(carboxymethyl)amino]ethyl]- (8CI)
OTHER NAMES:

CN (Triethylenetetraamino)hexaacetic acid
CN Triethylenetetramine-N,N,N',N'',N''',N'''-hexaacetic acid
CN Triethylenetetraminehexaacetic acid
CN TTHA
CN [Ethylenebis[[(carboxymethyl)imino]ethylenenitrilo]]tetraacetic acid
FS 3D CONCORD
DR 20261-67-0
MF C18 H30 N4 O12
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
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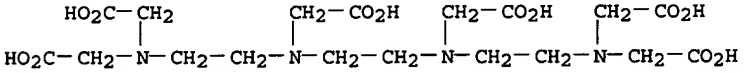

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

667 REFERENCES IN FILE CA (1907 TO DATE)
186 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
667 REFERENCES IN FILE CAPLUS (1907 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L6 ANSWER 8 OF 8 REGISTRY COPYRIGHT 2004 ACS on STN
RN **67-43-6** REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1,4,7,7-Diethylenetriaminepentaacetic acid
CN 3,6,9-Triazaundecanedioic acid, 3,6,9-tris(carboxymethyl)-
CN Acetic acid, 2,2',2'',2'''-[[(carboxymethyl)imino]bis(2,1-ethanediylnitrilo)]tetrakis-
CN Chel 330 acid
CN Chel DTPA
CN Clewat DA
CN Complexon V
CN Dabeersen 503
CN Detapac
CN Detarex
CN DETP
CN DETPA
CN Diethylenetriamine-N,N,N',N'',N''-pentaacetic acid
CN Diethylenetriaminepentaacetic acid
CN Dissolvine D
CN DPTA
CN DTPA
CN Hamp-Ex Acid
CN Monaquest CAI
CN N,N-Bis[2-[bis(carboxymethyl)amino]ethyl]glycine
CN NSC 7340
CN Pentacarboxymethyl diethylenetriamine
CN Pentetic acid

CN Titriplex V
CN [[(Carboxymethyl)imino]bis(ethylenenitrilo)]tetraacetic acid
FS 3D CONCORD
DR 573987-64-1, 13407-13-1, 6889-50-5, 7575-40-8, 25737-54-6, 84932-15-0, 49758-21-6
MF C14 H23 N3 O10
CI COM
SR CA
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
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RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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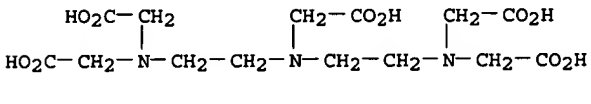

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5965 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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FILE LAST UPDATED: 23 DEC 2004 <20041223/UP>
MOST RECENT DERWENT UPDATE: 200482 <200482/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

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http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

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HIT STRUCTURES WITHIN THE BIBLIOGRAPHIC DOCUMENT <<<

>>> SMILES and ISOSMILES strings are no longer available as Derwent Chemistry Resource display fields <<<

=> d all l10 tot

L10 ANSWER 1 OF 1 WPIX COPYRIGHT 2004 THE THOMSON CORP on STN
AN 2001-488692 [53] WPIX
DNC C2001-146666
TI Anti-microbial compositions, useful as body deodorants contain antiperspirant and transitional metal chelator.
DC B05 D21 E19
IN LANDA, A S; MAKIN, S A; MCKAY, V A
PA (UNIL) UNILEVER PLC; (LAND-I) LANDA A S; (MAKI-I) MAKIN S A; (MCKA-I) MCKAY V A; (HIND-N) HINDUSTAN LEVER LTD; (UNIL) UNILEVER NV
CYC 95
PI WO 2001052804 A1 20010726 (200153)* EN 38 A61K007-32
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US 2001046479 A1 20011129 (200202) A61K007-32 <--
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CN 1395482 A 20030205 (200334) A61K007-32
HU 2002004294 A2 20030428 (200337) A61K007-32
MX 2002006959 A1 20030101 (200373) A61K007-32
ZA 2002005100 A 20031126 (200402) 53 A61K000-00
AU 772448 B2 20040429 (200457) A61K007-32
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PRAI GB 2000-1131 20000118; GB 2000-1130 20000118
IC ICM A61K000-00; A61K007-32
ICS A61K007-38
AB WO 200152804 A UPAB: 20010919
NOVELTY - Anti-microbial compositions containing an antiperspirant and a transition metal chelator, useful as body deodorants, are new.
DETAILED DESCRIPTION - An antimicrobial product comprises an antiperspirant and sufficient transitional metal chelator to enhance the deodorant effect of the antiperspirant.
ACTIVITY - Antiperspirant; deodorant; anti-microbial.
MECHANISM OF ACTION - Microbe transitional metal uptake inhibitor.
USE - Useful as an antiperspirant, deodorant and an anti-microbial on the human skin.
ADVANTAGE - The antimicrobial effect in-situ is more long-lasting than existing deodorants. (X) Was tested on 25 panelists' axillae and gave no detectable malodor after 24 hours.
Dwg.0/0
FS CPI
FA AB; DCN
MC CPI: B02-P03; B04-B01C1; B05-A01B; B05-B02C; B10-B01B; B10-E04D; B14-A01; B14-A02; B14-A03; B14-A04; B14-A05; B14-L06; B14-R03; D08-B09B; E02; E10-B01B; E10-E04; E34-C02; E34-C03; E35-L

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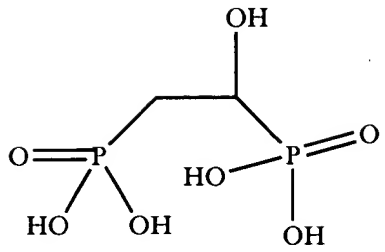
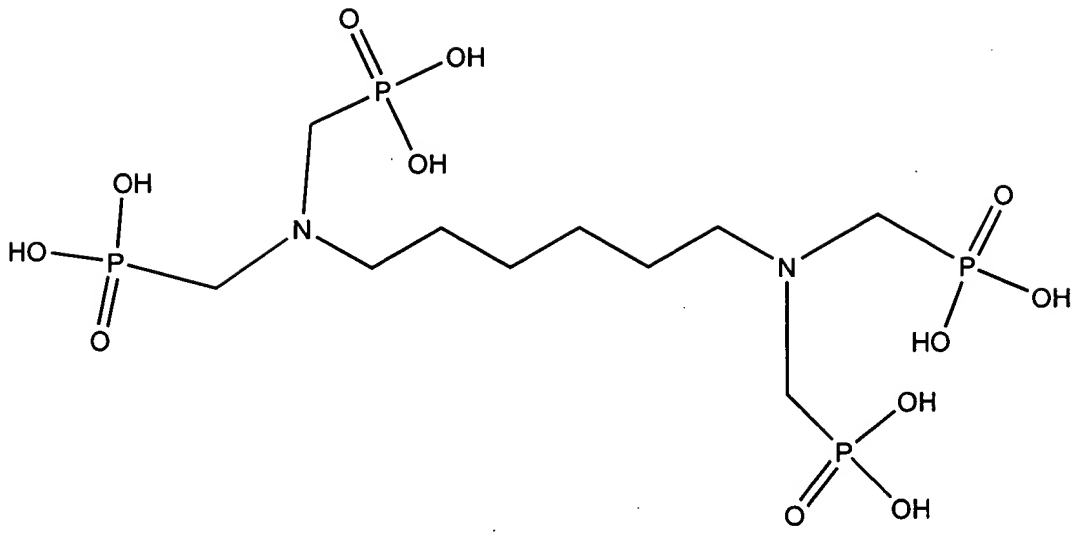


(2-Hydroxy-2-phosphono-ethyl)-phosphonic acid

$C_2H_8O_7P_2$

ethene hydroxydiphosphonic acid

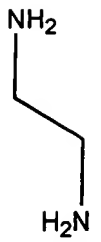
edhp



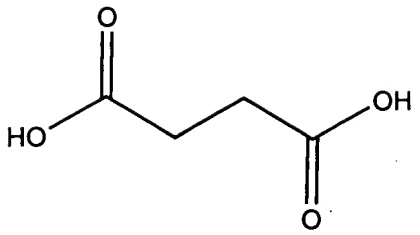
({[6-(Bis-phosphonomethyl-amino)-hexyl]-phosphonomethyl-amino}-methyl)-phosphonic acid

$C_{10}H_{28}N_2O_{12}P_4$

hexamethylene diaminetetra(methylene-phosphonic acid)



$C_2H_8N_2$



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$C_4H_6O_4$

Ethylene diamine disuccinic acid

EDDS exists as salt in Registry

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=> b reg
FILE 'REGISTRY' ENTERED AT 11:16:42 ON 28 DEC 2004
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provided by InfoChem.

STRUCTURE FILE UPDATES:   26 DEC 2004  HIGHEST RN 802853-20-9
DICTIONARY FILE UPDATES:  26 DEC 2004  HIGHEST RN 802853-20-9

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d ide l11

L11  ANSWER 1 OF 1  REGISTRY  COPYRIGHT 2004 ACS on STN
RN   7429-90-5  REGISTRY
CN   Aluminum (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   0100MSR
CN   0670TS
CN   0900X
CN   1001M
CN   102B
CN   102C
CN   1100H24
CN   1100P-H18
CN   13T
CN   1440YL
CN   1N30O
CN   350D
CN   350F
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CN   550N
CN   561SW
CN   5654NS
CN   5N
CN   5XD
CN   7160nl-NW
CN   716ON
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CN   804NL
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CN   A 36
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CN   A 6063S
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CN   A 999V
CN   A 99N
CN   AA 15
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CN AA 15 (metal)
CN AB 1003
CN AC 0460
CN AC 1000
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MF Al
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DIPPR*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
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11020 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
351003 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
CN **Aluminum (8CI, 9CI)** (CA INDEX NAME)
OTHER NAMES:
CN 0100MSR
CN 0670TS
CN 0900X
CN 1001M
CN 102B
CN 102C
CN 1100H24
CN 1100P-H18
CN 13T
CN 1440YL
CN 1N30O
CN 350D
CN 350F
CN 40XD
CN 5207N
CN 5422NS
CN 550N

CN 561SW
CN 5654NS
CN 5N
CN 5XD
CN 7160nl-NW
CN 716ON
CN 725EA
CN 725N
CN 7620NS
CN 7640NS
CN 7680NS
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CN 804NL
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CN A 36
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CN A 5052H34
CN A 6063S
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CN A 999
CN A 999V
CN A 99N
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CN Aisin Metal Fiber
CN Al 050P
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CN Al 18000
CN AL 885-20
CN AL-AT 250
CN Al-At 500F
CN Albo F
CN ALC Fine
CN Alcan 105
CN Alcan 2000
CN Alcan 7100
CN Alcan XI 1391
CN Alcoa 2468
CN Alcoa 7468
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CN ALE 11PB
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CN Aluchrome Ultrafin Super
CN Aluminium
CN Aluminium Flake
CN Aluminum 27
CN Aluminum atom
CN Aluminum element
CN Aluminum Flake PCF 7620
CN Aluminum powder
CN Aluminum powder 02-0005
CN Alumipaste 98-1822T
CN Alumipaste CR 300
CN Alumipaste GX 180A
CN Alumipaste GX 201A
CN Alumipaste HR 7000
CN Alumipaste HR 850
CN Alumipaste MG 11
CN Alumipaste MH 8801
CN APV
CN APV (metal)
CN Aquamet NPW 2900
CN Aquapaste 205-5
CN Aquasilver LPW
CN ASB
CN ASB (metal)
CN Astroflake 40
CN Astroflake Black N 020
CN Astroflake Black N 070

CN Astroflake LG 40
CN Astroflake LG 70
CN Astroflake Silver N 040
CN Astroshine NJ 1600
CN Atomizalumi VA 200
CN AW 600
CN AW 666C
CN AW 7000R
CN AW 808
CN AW 808C
CN AXX 1005
CN BL 2060
CN C.I. 77000
CN C.I. Pigment Metal 1
CN Chromal IV
CN Chromal X
CN CR 300
CN CR 50FM
CN CR 51GM
CN CR 9800RM
CN Decomet 1001/10
CN DS 5002
CN E 173
CN E 30B
CN E 347
CN E 347 (pigment)
CN EBP 251PA
CN Ecka AS 081
CN Elamet 100
CN Elamet 250
CN Elamet 500
CN EPC 8E297
CN EPC 8E340
CN ET 2025
CN Eterna Brite 301-1
CN Eterna Brite 601-1
CN Eterna Brite 651-1
CN Eterna Brite Primier 251PA
CN Fine 900
CN FM 4010WG
CN Friend Color F 500GR-W
CN Friend Color F 500WT
CN Friend Color F 700RE-W
CN Friend Color F 701RE-W
CN FX 1415
CN FZ-T 60b
CN GX 50A
CN H 26
CN H 26 (metal)
CN H 30
CN H 30 (metal)
CN H 5
CN H 5 (metal)
CN Hi Print 60T
CN Hisparkle HS 2
CN HR 51
CN HR 7000
CN HR 808
CN HR 850
CN Hydro Paste 8726
CN Hydrolux Reflexal 100
CN JIS 1N99
CN JISA 51010P
CN JISC 3108
CN JISC 3110
CN K 102
CN K 102 (metal)
CN KM 100
CN Kryal Z
CN L 1018
CN L 16
CN Lansford 243
CN LE 2993AR
CN LE Sheet 800
CN Leafing Alpaste
CN LEPC 2027

CN LG 100
CN LG-H Silver 25
CN M 601
CN M 601 (pigment)
CN M 801
CN M 801 (metal)
CN MC 606
CN ME 12
CN Metallux 161
CN Metallux 2154
CN Metalure
CN Metalure (metal)
CN Metalure 55350
CN Metalure L 55350
CN Metalure W 2001
CN Metana
CN Metasheen KM 100
CN Metasheen Slurry 1807
CN Metasheen Slurry 1811
CN Metasheen Slurry KM 100
CN Metax
CN Metax G
CN Metax S
CN MF 20
CN MG 21
CN MG 21 (metal)
CN MG 51
CN MH 6601
CN MH 8801
CN MH 8803
CN MH 8805
CN Mirror Glow 1000
CN Mirror Glow 600
CN MJ 450
CN Noral Aluminium
CN Noral Extra Fine Lining Grade
CN Noral Ink Grade Aluminium
CN O 100T
CN Obron 10890
CN Obron 5413
CN P 0100
CN P 09000
CN P 1100
CN P 1100 (metal)
CN P 1950
CN PA 8260
CN Pacal 21
CN PAP 1
CN PAP 1 (metal)
CN PAP-CI
CN PCF 1401
CN PCF 1440A
CN PCF 200AG
CN PCF 7601
CN PCF 7620
CN PCF 76200
CN PCF 7640
CN PCF 8160
CN PCR 214F
CN PCR 507
CN PD 7620
CN PO 100
CN PP 1380
CN PP 770
CN PU 100
CN PU 100 (metal)
CN RCF 7620
CN Reynolds 4-301
CN Reynolds 4-591
CN Reynolds 400
CN Reynolds 667
CN RP 40
CN S 40
CN S 40 (metal)
CN SA 8000T
CN SAP 1110W

CN SAP 120
CN SAP 123
CN SAP 2173
CN SAP 260N
CN SAP 405N
CN SAP 4120
CN SAP 510N
CN SAP 561PS
CN SAP 563PS
CN SAP 574PS
CN SAP 620N
CN SAP 630N
CN SAP 640N
CN SAP 720N
CN SAP 725N
CN SAP 771N
CN SAP-FM 4010
CN SAP-SL 440
CN SAP-VD 20
CN SBC 516-20Z
CN SBT 554RD
CN Serumekku
CN Setanium 50MIS-H8
CN SHORIC
CN Siberline ET 2025
CN Siberline ST 21030E1
CN Silvar A
CN Silver VT 522
CN Silverline SSP 353
CN SL 800
CN SL 800 (metal)
CN SP-FM 4000
CN SP-FM 8000
CN Sparkle Silver 3141ST
CN Sparkle Silver 3500
CN Sparkle Silver 3641
CN Sparkle Silver 516AR
CN Sparkle Silver 5245AR
CN Sparkle Silver 5271AR
CN Sparkle Silver 5500
CN Sparkle Silver 5745
CN Sparkle Silver 7000AR
CN Sparkle Silver 7005AR
CN Sparkle Silver 7500
CN Sparkle Silver E 1745AR
CN Sparkle Silver L 1526AR
CN Sparkle Silver SS 3130
CN Sparkle Silver SS 5242AR
CN Sparkle Silver SS 5588
CN Special PCR 507
CN Spota Mobil 801
CN SS 3666
CN SS 6246AR
CN SS 7000AR
CN SSP 3622
CN SSP 554
CN ST 21030E1
CN Stapa 20HK
CN Stapa Aloxal PM 2010
CN Stapa Aloxal PM 3010
CN Stapa Aloxal PM 4010
CN Stapa Hydrolac BG 8n.1
CN Stapa Hydrolac BGH Chromal X
CN Stapa Hydrolac PM Chromal VIII
CN Stapa Hydrolac W 60NL
CN Stapa Hydrolac WH 16
CN Stapa Hydrolux 2192
CN Stapa Hydrolux 8154
CN Stapa Metallic R 607
CN Stapa Metallux 1050
CN Stapa Metallux 211
CN Stapa Metallux 212
CN Stapa Metallux 2196
CN Stapa Mobilux 181
CN Stapa Offset 3000
CN Stapa PV 10

CN Stapa VP 46432G
CN Super Fine 18000
CN Superfine 18000WN
CN Superfine 22000WN
CN Superfine P 7
CN Supramex 2022
CN T 2054
CN TCR 3010
CN TCR 3040
CN Toyo Aluminum 02-0005
CN Toyo Aluminum 93-3040
CN Transmet K 102HE
CN Tufflake 3645
CN Tufflake 5843
CN US Aluminum 809
CN UT 901
CN VA 2000
CN VA 350
CN VA 500
CN Valimet H 3
CN VD 20
CN VI 5
CN VI 5 (metal)
CN VSvA 97N
CN VTS 0115
CN VTSO 112
CN White Silver 7080N
CN White Silver 7130N
CN WJP-U 75C
CN WX 0630
CN WX 1130
CN WXMO 630
CN WZ 7160
CN XI 1136
CN YP 580
CN ZB 1-0
CN ZB 1-0 (metal)

=> d ide l13

L13 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 7440-67-7 REGISTRY
CN **Zirconium (8CI, 9CI)** (CA INDEX NAME)
OTHER NAMES:
CN **zirconium**
CN Zirconium element
DR 141631-74-5, 141631-75-6, 141631-77-8, 182260-46-4
MF Zr
CI COM
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DIOGENES, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Preprint; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); CMBI (Combinatorial study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical

study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

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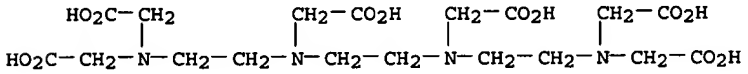
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

66654 REFERENCES IN FILE CA (1907 TO DATE)
4413 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
66694 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide l16 tot

L16 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 18719-04-5 REGISTRY
CN 3,6,9,12-Tetraazatetradecanedioic acid, 3,6,9,12-tetrakis(carboxymethyl)-, hexasodium salt (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N,N'-ethylenebis[N-[2-[bis(carboxymethyl)amino]ethyl]-, hexasodium salt (8CI)
OTHER NAMES:
CN Chelest Q
CN Clewat TH
CN Hexasodium triethylenetetraminehexaacetate
CN Triethylenetetraaminehexaacetic acid hexasodium salt
CN Triethylenetetraminehexaacetic acid, hexasodium salt
CN **TTHA hexasodium salt**
MF **C18 H30 N4 O12 . 6 Na**
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses); NORL (No role in record)
RL.NP Roles from non-patents: ANST (Analytical study); PRP (Properties)
CRN (869-52-3)

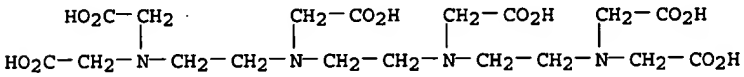


●6 Na

40 REFERENCES IN FILE CA (1907 TO DATE)
40 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L16 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 869-52-3 REGISTRY
CN 3,6,9,12-Tetraazatetradecanedioic acid, 3,6,9,12-tetrakis(carboxymethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Acetic acid, [ethylenebis[[(carboxymethyl)imino]ethylenenitrilo]]tetra- (6CI, 7CI)
CN Glycine, N,N'-ethylenebis[N-[2-[bis(carboxymethyl)amino]ethyl]- (8CI)
OTHER NAMES:
CN (Triethylenetetraamino)hexaacetic acid
CN Triethylenetetramine-N,N,N',N'',N''',N'''-hexaacetic acid
CN Triethylenetetraminehexaacetic acid
CN **TTHA**
CN [Ethylenebis[[(carboxymethyl)imino]ethylenenitrilo]]tetraacetic acid
FS 3D CONCORD
DR 20261-67-0
MF **C18 H30 N4 O12**
CI COM
LC STN Files: ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,

CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

667 REFERENCES IN FILE CA (1907 TO DATE)
186 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
667 REFERENCES IN FILE CAPLUS (1907 TO DATE)
19 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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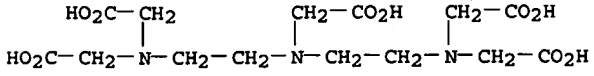
L19 ANSWER 1 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 155639-79-5 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, mixt. with calcium chloride (CaCl2) (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Calcium chloride (CaCl2), mixt. contg. (9CI)
OTHER NAMES:
CN **calcium chloride-DTPA mixt.**
MF **C14 H23 N3 O10 . Ca Cl2**
CI MXS
SR CA
LC STN Files: BIOBUSINESS, CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: ANST (Analytical study); USES (Uses)

CM 1

CRN 10043-52-4
CMF Ca Cl2

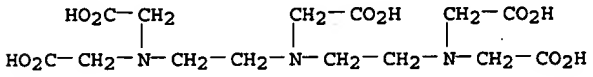
CM 2

CRN 67-43-6
CMF C14 H23 N3 O10



4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

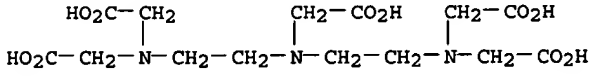
L19 ANSWER 2 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 33320-12-6 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, lanthanum complexes (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, lanthanum-140La salt
CN **Lanthanum-140 DTPA**
DR 26251-84-3
MF **C14 H23 N3 O10 . x La**
LC STN Files: CA, CAPLUS, GMELIN*
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study)
CRN (67-43-6)



●x ^{140}La(x)

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L19 ANSWER 3 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 13078-36-9 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, trisodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Diethylenetriaminepentaacetic acid trisodium salt
CN Trisodium diethylene triaminepentaacetate
CN **Trisodium DTPA**
MF **C14 H23 N3 O10 . 3 Na**
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CHEMLIST, GMELIN*, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)
CRN (67-43-6)

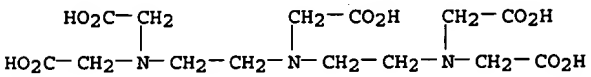


●3 Na

15 REFERENCES IN FILE CA (1907 TO DATE)
15 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L19 ANSWER 4 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 2531-75-1 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, calcium salt (1:1) (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN **Ca-DTPA**
CN Calcium diethylenetriaminepentaacetate
CN Calcium diethylenetriaminepentaacetic acid
CN **Calcium DTPA**

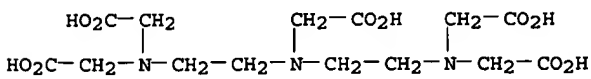
CN Diethylenetriamine pentaacetic acid, calcium salt
CN **DTPA-Ca**
DR 15168-13-5
MF **C14 H23 N3 O10 . Ca**
LC STN Files: ADISNEWS, AGRICOLA, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CHEMLIST, CIN, CSCHEM, DDFU, DRUGU, EMBASE, NIOSHTIC, PROMT, RTECS*, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: BIOL (Biological study); MSC (Miscellaneous); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); USES (Uses)
CRN (67-43-6)



● Ca

112 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
112 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L19 ANSWER 5 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 1420-46-8 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, disodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Diethylenetriamine-N,N,N',N'',N''-pentaacetic acid disodium salt
CN **DTPA disodium salt**
MF **C14 H23 N3 O10 . 2 Na**
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, GMELIN*, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: BIOL (Biological study); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); RACT (Reactant or reagent); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study); PREP (Preparation)
CRN (67-43-6)

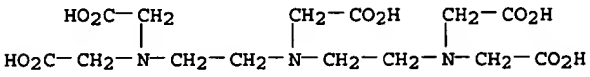


2 Na

23 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
23 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

Search done by Noble Jarrell

L19 ANSWER 6 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 140-01-2 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt (8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN Anti Cal 8
CN Chel 330
CN Chelest P
CN Clewat DP 80
CN Detarex PY
CN Diethylenetriaminepentaacetic acid pentasodium salt
CN Diethylenetriaminepentakis(acetic acid) pentasodium salt
CN Dissolvine D 50
CN **DTPA pentasodium salt**
CN Hamp-ex 80
CN Pentasodium diethylenetriaminepentaacetate
CN Pentasodium Pentetate
CN Perma Kleer 140
CN Plexene D
CN Sodium diethylenetriaminepentaacetate
CN Syntron C
CN Tetralon B
CN Trilon C
CN Versenex 80
DR 59232-96-1, 81647-97-4
MF **C14 H23 N3 O10 . 5 Na**
CI COM
LC STN Files: AQUIRE, BEILSTEIN*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, GMELIN*, HSDB*, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: PROC (Process)
CRN (67-43-6)

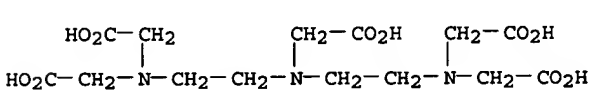


●5 Na

457 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
457 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L19 ANSWER 7 OF 7 REGISTRY COPYRIGHT 2004 ACS on STN
RN 67-43-6 REGISTRY
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1,4,7,7-Diethylenetriaminepentaacetic acid
CN 3,6,9-Triazaundecanedioic acid, 3,6,9-tris(carboxymethyl)-
CN Acetic acid, 2,2',2'',2'''-[[(carboxymethyl)imino]bis(2,1-ethanediylnitrilo)]tetrakis-
CN Chel 330 acid
CN **Chel DTPA**
CN Clewat DA
CN Complexon V
CN Dabeersen 503

CN Detapac
CN Detarex
CN DETP
CN **DETPA**
CN Diethylenetriamine-N,N,N',N'',N''-pentaacetic acid
CN Diethylenetriaminepentaacetic acid
CN Dissolvine D
CN DPTA
CN **DTPA**
CN Hamp-Ex Acid
CN Monaquest CAI
CN N,N-Bis[2-[bis(carboxymethyl)amino]ethyl]glycine
CN NSC 7340
CN Pentacarboxymethyl diethylenetriamine
CN Pentetic acid
CN Titriplex V
CN [[(Carboxymethyl)imino]bis(ethylenenitrilo)]tetraacetic acid
FS 3D CONCORD
DR 573987-64-1, 13407-13-1, 6889-50-5, 7575-40-8, 25737-54-6, 84932-15-0, 49758-21-6
MF **C14 H23 N3 O10**
CI COM
SR CA
LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM*, DRUGU, EMBASE, GMELIN*, HODOC*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, TOXCENTER, ULIDAT, USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Book; Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



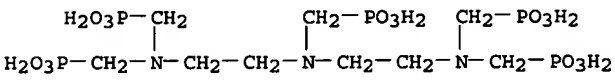
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5960 REFERENCES IN FILE CA (1907 TO DATE)
1909 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5965 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d ide l21

L21 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 15827-60-8 REGISTRY
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphonic acid, [[bis[2-[bis(phosphonomethyl)amino]ethyl]amino]methyl]- (8CI)
OTHER NAMES:

CN CIX
CN Cublen D 50
CN Dequest 2060
CN Dequest 2060S
CN DETPMP
CN Diethylenetriamine-N,N,N',N'',N''-penta(methylenephosphonic acid)
CN Diethylenetriamine-N,N,N',N'',N''-pentakis(methylenephosphonic acid)
CN Diethylenetriaminepenta(methylenephosphonic acid)
CN Diethylenetriaminepentakis(methylenephosphonic acid)
CN Diethylenetriaminepentakis(methylphosphonic acid)
CN Diethylenetriaminopenta(methylenephosphonic acid)
CN DQ 2060
CN DTPF
CN DTPMP
CN DTPP
CN DTPPA
CN Ethylenetriaminepenta(methylenephosphonic acid)
CN Lonza 905
CN Sequion 40H50
CN Versenate PS
FS 3D CONCORD
DR 67774-91-8, 244775-22-2, 291513-72-9
MF C9 H28 N3 O15 P5
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, PIRA, PROMT, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



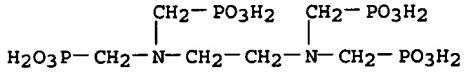
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

864 REFERENCES IN FILE CA (1907 TO DATE)
113 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
865 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide l23

L23 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 1429-50-1 REGISTRY
CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Phosphonic acid, [ethylenebis(nitrilodimethylene)]tetra- (6CI, 7CI, 8CI)
OTHER NAMES:
CN Cublen 3115
CN Dequest 2040
CN Dequest 2041
CN Editempa
CN EDPA
CN EDPA (chelating agent)

CN EDTF
CN EDTMP
CN EDTMPA
CN EDTPA
CN EDTPH
CN Ethylenedi(nitrilodimethylene)tetraphosphonic acid
CN Ethylenediamine-N,N,N',N'-tetra(methylphosphonic acid)
CN Ethylenediamine-N,N,N',N'-tetrakis(methylenephosphonic acid)
CN Ethylenediaminetetra(methylenephosphonic acid)
CN Ethylenediaminetetrakis(methylenephosphonic acid)
CN Ethylenediaminetetrakis(methylphosphonic acid)
CN Ethylenediaminetetramethylenephosphonate
CN Ethylenediaminotetra(methylenephosphonic acid)
CN N,N,N',N'-Tetrakis(phosphonomethyl)ethylenediamine
CN Wayplex 45K
CN [Ethylenebis(nitrilodimethylene)]tetraphosphonic acid
FS 3D CONCORD
DR 54579-31-6, 66300-26-3, 85497-53-6, 244775-21-1
MF **C6 H20 N2 O12 P4**
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, SPECINFO, TOXCENTER, ULIDAT, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



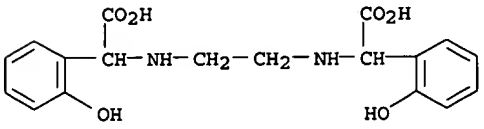
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1167 REFERENCES IN FILE CA (1907 TO DATE)
232 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1169 REFERENCES IN FILE CAPLUS (1907 TO DATE)
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d ide l24

L24 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 1170-02-1 REGISTRY
CN Benzeneacetic acid, .alpha.,.alpha.'-(1,2-ethanediyldiimino)bis[2-hydroxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Glycine, N,N'-ethylenebis[2-(o-hydroxyphenyl)- (6CI, 8CI)
OTHER NAMES:
CN (2,2'-Ethylenediimino)bis[(2-hydroxyphenyl)acetic acid]
CN CHEL 138
CN Chel DP
CN Dissolvine Q

CN EDBPHA
CN EDDHA
CN EDHPA
CN Ethylenebis[(o-hydroxyphenyl)glycine]
CN Ethylenediamine-N,N'-bis(2-hydroxyphenylacetic acid)
CN Ethylenediamine-N,N'-bis(o-hydroxyphenylacetic acid)
CN Ethylenediamine-N,N'-bis[.alpha.-(2-hydroxyphenyl)acetic acid
CN Ethylenediamine-N,N'-di[o-hydroxyphenylacetic acid]
CN Ethylenediaminebis(2-hydroxyphenylacetic acid)
CN Ethylenediaminebis(o-hydroxyphenylacetic acid)
CN Ethylenediaminedi-o-hydroxyphenylacetic acid
CN N,N'-Ethylenebis(o-hydroxyphenylglycine)
CN N,N'-Ethylenebis[2-(o-hydroxyphenyl)]glycine
FS 3D CONCORD
DR 15162-65-9, 15475-97-5, 23648-82-0, 118936-20-2
MF C18 H20 N2 O6
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM, DDFU, DRUGU, EMBASE, GMELIN*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, RTECS*, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

457 REFERENCES IN FILE CA (1907 TO DATE)
104 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
456 REFERENCES IN FILE CAPLUS (1907 TO DATE)
33 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 09:15:38 ON 28 DEC 2004)

FILE 'HCAPLUS' ENTERED AT 09:15:50 ON 28 DEC 2004
L1 1 US20010046479/PN
E UK2000-1130/AP,PRN
E GB2000-1130/AP,PRN
L2 1 GB2000-1130/AP,PRN
E GB2000-1131/AP,PRN
L3 1 GB2000-1131/AP,PRN
L4 1 L1-3

FILE 'REGISTRY' ENTERED AT 09:17:37 ON 28 DEC 2004

FILE 'HCAPLUS' ENTERED AT 09:17:40 ON 28 DEC 2004
L5 TRA L4 1- RN : 8 TERMS

FILE 'REGISTRY' ENTERED AT 09:17:40 ON 28 DEC 2004

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L6            8 SEA L5

     FILE 'WPIX' ENTERED AT 09:17:44 ON 28 DEC 2004
L7            1 US20010046479/PN
                E GB2000-1130/AP,PRN
L8            1 GB2000-1130/AP,PRN
L9            1 GB2000-1131/AP,PRN
L10           1 L7-9

     FILE 'REGISTRY' ENTERED AT 09:34:04 ON 28 DEC 2004
L11           1 ALUMINUM/CN
L12           1 ZIRCONIUM/CN
L13             QUE (PMS OR MAN OR IDS)/CI OR COMPD OR COMPOUND OR UNSPECIFIED
L14           2 C18H30N4O12 AND TTHA NOT L13
L15          10 C14H23N3O10 AND (DTPA OR DETPA) NOT L13
L16           9 L15 NOT (NC=4 OR AMMONIUM (1A) HYDROGEN (1A) CARBONATE)
L17           7 L16 NOT 4 (1A) AMINOBENZOATE
                E DTPMP/CN
L18           1 DTPMP/CN
L19           1 C9H28N3O15P5 AND DTPMP NOT L13
                E EDHP/CN
                E EDTMP/CN
L20           1 EDTMP/CN
L21           1 C6H20N2O12P4 AND EDTMP
                E EDDS/CN
                E EDDHA/CN
L22           1 EDDHA/CN
L23           2 C18H20N2O6 AND EDDHA
L24          42 C10H28N2O12P4
L25          38 L24 AND PHOSPHONIC (1A) ACID
L26          27 L25 AND HEXANEDIYL
L27          23 L26 NOT (L13 OR MXS/CI)
L28           4 L26 NOT L27
L29        7066 C2H8N2
L30          71 L29 NOT L13 AND ETHYLENEDIAMINE
L31         478 C2H8O7P2
L32         347 L31 NOT L13
L33         333 L32 AND PHOSPHONIC (1A) ACID
L34           3 L33 AND ETHAN
                SEL RN 2-3
L35           2 E1-2 AND L34
L36         316 L33 AND HYDROXYETHYL
L37         316 L35-36

     FILE 'HCAPLUS' ENTERED AT 11:20:25 ON 28 DEC 2004
L38             QUE L11 OR ALUMINUM OR ALCOA OR ALCAN OR ALPASTE OR ALUMIPASTE
L39             QUE L12 OR ZIRCONIUM OR ZR
L40             QUE L14 OR L17 OR L19 OR L37 OR L21 OR L22
L41         516 TTHA OR CHELEST OR CLEWAT OR TRIETHYLENETETRAAMINEHEXACETIC (1A
L42       10320 ETHYLENEBIS (3A)CARBOXYMETHYL (1A) IMINO (1A) EHTYLENENITRILO (
L43         707 DIETHYLENETRIAMINE (5A) PENTAACETIC (1A) ACID
L44        8510 (DIETHYLENETRIAMINEPENTAKIS (1A)ACETIC OR PENTETIC) (1A) ACID O
L45        1384 CIX OR CUBLEN OR DEQUEST OR DIETHYLTRIAMINE (5A) (PENTA OR PENT

     FILE 'REGISTRY' ENTERED AT 11:39:02 ON 28 DEC 2004
L46      326849 AL/ELS
L47      135421 ZR/ELS

     FILE 'HCAPLUS' ENTERED AT 11:39:16 ON 28 DEC 2004
L48             QUE L47
L49         457 EDITEMPA OR EDPA OR EDTF OR EDTMP OR EDTMPA OR EDTPA OR EDTPN O
L50          15 TETRAKIS (1A) PHOSPHONOMETHYL (1A) ETHYLENEDIAMINE OR ETHYLENEB
L51         931 CHEL OR DISSOLVINE OR EDBPHA OR EDDHA OR EDHPA OR ETHYLENE? (1A
                E DEODOR/CT
                E E9+ALL
L52        8238 DEODORANTS+NT/CT
                E COATING MATERIALS/CT
                E E3+ALL
L53         317 COATING MATERIALS+OLD,NT/CT (L) (DEODOR? OR DEODOUR?)
                E DEODOR/CT
                E E9+ALL
                E E18+ALL
L54         510 AIR FRESHENERS/CT
                E E7+ALL
L55       25724 "ODOR AND ODOROUS SUBSTANCES"+OLD,NT/CT
                E E17
```

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                E E3+ALL
L56          5609 DEODORIZATION/CT
L57          1356 (L38 OR L39 OR L48) AND L52-56
L58            10 L57 AND (L40 OR L41 OR L42 OR L43 OR L44 OR L45 OR L49 OR L50 O
                E LANDA A/AU
L59            35 E3,E10
                E LANDA ANDREW/AU
L60             8 E4-5
                E MAKIN S/AU
L61            10 E4,E11-12
                E MCKAY V/AU
L62             3 E3,E6
                E MC KAY V/AU
L63         10998 UNILEVER/CS,PA
L64             2 L58 AND L59-63
L65             8 L58 NOT L64
                SEL AN 1 3-8
L66             7 E1-14 AND L65
L67          4577 (L38 OR L39 OR L48) AND COSMET?/CC,SX
L68            33 L67 AND (L40 OR L41 OR L42 OR L43 OR L44 OR L45 OR L49 OR L50 O
L69             3 L68 AND L59-63
L70             3 L64 OR L69
L71            30 L68 NOT L70
L72            26 L71 NOT L65
                SEL AN 1-21
L73            21 E15-55 AND L72
L74            28 L66 OR L73

=> b hcap
FILE 'HCAPLUS' ENTERED AT 12:40:11 ON 28 DEC 2004
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FILE COVERS 1907 - 28 Dec 2004  VOL 142 ISS 1
FILE LAST UPDATED: 24 Dec 2004  (20041224/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.


=> d all fhitstr l70 tot

L70  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2004:490268  HCAPLUS
DN   141:42568
ED   Entered STN:  17 Jun 2004
TI   Process for manufacture of personal care products utilizing a concentrate
     water phase
IN   Divone, Peter Anthony; Biercevicz, Walter Anthony; Regan, Joseph James;
     Bridges, Christy Ann; Priest, Kimberly Ann
PA   Unilever Home & Personal Care USA, USA
SO   U.S. Pat. Appl. Publ., 11 pp.
     CODEN: USXXCO
DT   Patent
LA   English
IC   ICM  A61K007-00
NCL  424401000
CC   62-4 (Essential Oils and Cosmetics)
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     --------------      ----   --------    --------------------    --------
PI   US 2004115230        A1    20040617    US 2002-320029          20021216
     WO 2004054695        A1    20040701    WO 2003-EP12419         20031103
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ,
OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES,
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2002-320029 A 20021216

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004115230	ICM	A61K007-00
	NCL	424401000

AB A process which may be continuous is provided for manufacture of personal care product compns. The process involves feeding a first water phase which is a concentrate containing most if not all water soluble ingredients of the composition into a blending tube. A second phase which can be oily or aqueous and a third water phase, the latter being essentially pure water, are also fed into the blending tube. All of the phases are transported through the tube at a flow rate of about 5 to about 5000 lb/min and at a pressure of about 10 to about 5000 psi. Preferably the tube leads into a homogenizer such as a sonolator. For example, a pair of skin lotions were prepared to reflect a 2x and a 10x level of concentrate Both concs. with the appropriate amount of added water will attain the resultant composition comprising (i) an oil phase containing stearic acid 2.0217%, glycol stearate/stearamide AMP 1.1939%, glycerol monostearate 0.5572%, cetyl alc. 0.3184%, petrolatum 0.5%, mineral oil 1.4%, and dimethicone 0.3%, and (ii) an aqueous phase containing water 79.4078%, tetrasodium EDTA 0.1017%, magnesium **aluminum** silicate 0.2%, glycerin 3.5%, methylparaben 0.1425%, titanium dioxide (water dispersible) 0.1%, Carbopol 934 (2% active in water) 9%, triethanolamine 0.7568%, Aloe vera gel 0.09%, DMDM hydantoin 0.25%, and fragrance 0.16%.

ST conc water phase liq personal care compn

IT Hair preparations
(conditioners; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Raspberry
(extract; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Aloe barbadensis
(gel; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Cosmetics
(lotions; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Proteins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(oat; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Cosmetics
Shampoos
(process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Hydrocarbon oils
Keratins
Lecithins
Petrolatum
Sunflower oil
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(process for manufacture of liquid personal care products utilizing concentrate water phase)

IT Sterols
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(soya; process for manufacture of liquid personal care products utilizing concentrate water phase)

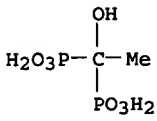
IT Fatty acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(sunflower-oil, ethoxylated; process for manufacture of liquid personal care products utilizing concentrate water phase)

IT 56-81-5, Glycerin, biological studies 57-11-4, Stearic acid, biological studies 58-95-7, Vitamin E acetate 64-02-8, Tetrasodium EDTA
77-92-9, Citric acid, biological studies 79-81-2, Vitamin A palmitate
99-76-3, Methylparaben 102-71-6, Triethanolamine, biological studies
1327-43-1, Magnesium **aluminum** silicate **2809-21-4**,
Dequest 2010 4065-45-6, Benzophenone-4 6440-58-0, DMDM

hydantoin 9004-65-3, Hydroxypropyl methyl cellulose 9006-65-9, Dimethicone 9007-16-3, Carbopol 934 12125-02-9, Ammonium chloride, biological studies 13463-67-7, Titanium dioxide, biological studies 25383-99-7, Sodium stearoyl lactylate 31566-31-1, Glycerol monostearate 36574-66-0D, N-coco acyl derivs. 36653-82-4, Cetyl alcohol 42557-10-8 55965-84-9, Kathon CG 81859-24-7, Polyquaternium-10 704883-45-4
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(process for manufacture of liquid personal care products utilizing concentrate water phase)

IT **2809-21-4, Dequest 2010**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(process for manufacture of liquid personal care products utilizing concentrate water phase)

RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L70 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:545448 HCAPLUS
DN 135:126946
ED Entered STN: 27 Jul 2001
TI Anti-microbial compositions comprising a salt of a transition metal chelator
IN Johnson, Paula Ann; **Landa, Andrew Sjaak**; **Makin, Stephen Anthony**; McMillan, Ian Robert
PA **Unilever** PLC, UK; **Unilever** NV; Hindustan Lever Limited
SO PCT Int. Appl., 52 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K007-32
ICS A61K031-14; A61K031-205
CC 62-4 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001052805	A1	20010726	WO 2001-EP118	20010108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1248591	A1	20021016	EP 2001-900136	20010108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001007657	A	20021119	BR 2001-7657	20010108
AU 775652	B2	20040812	AU 2001-23729	20010108
US 2001033854	A1	20011025	US 2001-764734	20010117
ZA 2002005190	A	20030627	ZA 2002-5190	20020627
PRAI GB 2000-1132	A	20000118		
GB 2000-1133	A	20000118		
WO 2001-EP118	W	20010108		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001052805	ICM	A61K007-32
	ICS	A61K031-14; A61K031-205
US 2001033854	ECLA	A61K007/50K6B; A61K008/04F; A61K008/41; A61K008/41L; A61K008/44; A61K008/84; A61Q015/00; A61Q017/00

AB Disclosed are antimicrobial compns. for use on the outer surface of the human body or on apparel worn in close proximity thereto comprising a carrier material and a salt of a transition metal chelator comprising a transition metal chelator anion and particular organic cations. The chelator salts possess great formulation flexibility, being compatible with a wide

range of other materials, and are believed to function by inhibiting the up-take of essential transition metal nutrients by microbes. Preferred chelators have high affinity for iron (III). **DTPA** was added to ethanol and to this mixture was added 2-amino-2-methyl-1-propanol. Iso-Pr myristate was added to the resulting solution and the mixture was sealed into a conventional **aluminum** deodorant can and liquefied propellant was introduced into the can.

ST antimicrobial deodorant chelator **DTPA** polyaminocarboxylate salt

IT **Deodorants (personal)**
(deodorants containing transition metal chelator salts)

IT Transition metals, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(deodorants containing transition metal chelator salts)

IT Antibacterial agents
Chelating agents
(deodorants containing transition metal chelator salts and bactericides)

IT **Deodorants (personal)**
(sprays; deodorants containing transition metal chelator salts)

IT 20074-52-6, Ferric ion, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(deodorants containing transition metal chelator salts)

IT 351317-35-6 351317-36-7 351317-37-8 351317-38-9 351317-39-0
351317-40-3 351317-41-4
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(deodorants containing transition metal chelator salts)

IT 32289-58-0, Cosmocil cq
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(deodorants containing transition metal chelator salts and bactericides)

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Ciba Geigy Ag; DE 19620644 A 1997 HCAPLUS
(2) Kraskin, K; US 4356190 A 1982 HCAPLUS
(3) Voss, J; US 3507796 A 1970 HCAPLUS

L70 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:545447 HCAPLUS
DN 135:111741
ED Entered STN: 27 Jul 2001
TI Antimicrobial deodorant containing transition metal chelators and antiperspirant actives
IN **Landa, Andrew Sjaak; Makin, Stephen Anthony; McKay, Victoria Anne**
PA **Unilever** PLC, UK; **Unilever** NV; Hindustan Lever Limited
SO PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K007-32
ICS A61K007-38
CC 62-4 (Essential Oils and **Cosmetics**)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001052804	A1	20010726	WO 2001-EP111	20010108
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
CA 2396959	AA	20010726	CA 2001-2396959	20010108
BR 2001007689	A	20021119	BR 2001-7689	20010108
EP 1259215	A1	20021127	EP 2001-942542	20010108
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
AU 772448	B2	20040429	AU 2001-28457	20010108
US 2001046479	A1	20011129	US 2001-764829	20010117
ZA 2002005100	A	20030904	ZA 2002-5100	20020625
PRAI GB 2000-1130	A	20000118		
GB 2000-1131	A	20000118		
WO 2001-EP111	W	20010108		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001052804	ICM	A61K007-32
	ICS	A61K007-38
US 2001046479	ECLA	A61K007/32; A61K007/32M

AB Disclosed are antimicrobial products comprising an antiperspirant active and an amount of transition metal chelator sufficient to enhance the deodorancy performance of said antiperspirant active. The transition metal chelator salt improves the antimicrobial performance of the antiperspirant active and the two components can be co-formulated. Particular products are antiperspirant deodorant compns. Preferred chelator salts have high affinity for iron (III). A stick deodorant antiperspirant contained AZAG 25, talc 3.2, stearyl alc. 14, hydrogenated castor oil 4, PEG-8 distearate 1, **DTPA** 1, poly(hexamethylene biguanide) stearate 0.215, and volatile silicone DC 245 q.s. to 100 %.

ST antiperspirant **aluminum zirconium DTPA** chelator deodorant

IT Antiperspirants
Chelating agents
Deodorants (personal)
(antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

IT Transition metals, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

IT **Deodorants (personal)**
(sprays; antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

IT **Deodorants (personal)**
(sticks; antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

IT 20074-52-6, Ferric ion, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

IT **67-43-6, DTPA 869-52-3, TTHA**
1327-41-9, **Aluminum** chlorohydrate 3380-34-5, Triclosan
4602-84-0, Farnesol 190606-35-0, AZAG 217631-98-6
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

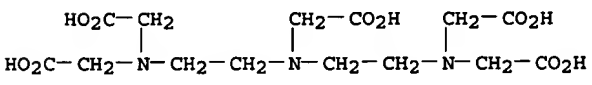
RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE
(1) Colgate Palmolive Co; WO 9843604 A 1998 HCAPLUS
(2) Motley, C; US 5516511 A 1996 HCAPLUS
(3) Motley, C; US 5849276 A 1998 HCAPLUS
(4) Procter & Gamble; EP 0483426 A 1992 HCAPLUS
(5) Procter & Gamble; WO 9956717 A 1999 HCAPLUS
(6) Sane, J; US 5705171 A 1998
(7) Sane, J; US 5725846 A 1998 HCAPLUS
(8) Sane, J; US 5939055 A 1999 HCAPLUS

IT **67-43-6, DTPA**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(antimicrobial deodorant containing transition metal chelators and antiperspirant actives)

RN 67-43-6 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



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L74 ANSWER 1 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2004:1089535** HCAPLUS
ED Entered STN: 20 Dec 2004

TI Lifting cream for dry and sensitive skin
IN Chigarina, K. M.; Alaverdiev, I. M. O.; Zalevskaya, S. I.; Andreeva, E. V.; Sapozhnikova, T. I.; Rychenkova, T. V.; Zhukova, O. P.
PA Otkrytoe Aktsionernoe Obshchestvo Kosmeticheskoe Ob'edinenie "Svoboda", Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian
IC ICM A61K007-48
ICS A61K007-00
CC 62 (Essential Oils and Cosmetics)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI RU 2242216	C1	20041220	RU 2003-112201	20030428
PRAI RU 2003-112201		20030428		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
RU 2242216	ICM	A61K007-48
	ICS	A61K007-00

AB FIELD: cosmetol.SUBSTANCE: the suggested lifting-cream for dry and sensitive skin contains structure-forming emulsifying agents, emollients, cyclomethycone, moisturizing additives - glycerol or propylene glycol, butyric phase, biol. active supplements, pigments, Me and Pr ethers of paraoxybenzoic acid or Katon CG, or Hermaben II, or bronitrol or bronopol, perfumery composition and water. It, addnl., contains gelating agents - carbomers or carbopol and neutralizing agents - triethanolamine or sodium hydroxide, or tech. caustic soda, UV-filters - the mixture of octylmethoxycinnamate, butylmethoxydibenzoyl-methane, octylsalicylate at the ratio of 1 : 1 : 1 or the mixture of octylmethoxycinnamate and butylmethoxybenzoyl-methane at the ratio of 1 :1, **trilon** B, as structure-forming emulsifying agents it contains the mixture of PEG-100 stearate and glycerol monostearate at the ratio of 1 : 1, high-mol. synthetic alcs. C16-C18 or primary synthetic fatty alcs. of C16-C20 fraction, glyceryloleate, polysorbate-60, cosmetic stearin, as emollients - octyldodecanol, octylstearate, dicapryl ether, pentaerythrityl tetraisostearate, as moisturizing additive it addnl. contains allantoin, as butyric phase - isopropylpalmitate or isopropylmyristate, as biol. active additives it contains cacao oil, schi oil, avocado oil, peach oil, aqueous-alc. extract of chamomile flowers or aqueous-alc.-glycerol extract of chamomile flowers, or extract of chamomile flowers in propylene glycol, hydrolyzed soybean protein, plankton extract, vitamin E, phytosterol sulfate, as pigments - **aluminum** starch octenylsuccinate. The suggested lifting-cream "Diamant" for dry and sensitive skin smoothes the netting of small wrinkles and corrects facial contour in the course of continuous moisturizing and prolonged protection against UV-radiation. It has been proved by flattened teeth of small wrinkles on an average: Rt average By 6.5%, R max average By 5.0%, R z-d average By 10.6%.EFFECT: higher efficiency of application.1 tbl.

L74 ANSWER 2 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2004:856917** HCAPLUS
DN 141:337304
ED Entered STN: 18 Oct 2004
TI Teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide
IN Orlowski, Jan A.; Butler, David V.; Shiah, Thomas; Mapar, Mahin
PA USA
SO U.S. Pat. Appl. Publ., 7 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-20
NCL 424053000
CC 62-7 (Essential Oils and Cosmetics)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004202621	A1	20041014	US 2003-746124	20031223
PRAI US 2002-436118P	P	20021223		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004202621	ICM	A61K007-20

NCL 424053000

AB Disclosed are compns. for bleaching teeth, comprising a single component part or two or more components blended together before each application. The compns. offer extended shelf life and accelerated bleaching action while significantly reducing the possibility of user discomfort. In preferred embodiments, the composition or one of its parts comprises a blend of hydrogen peroxide and carbamide peroxide in a solution having the consistency of a gel or a viscous liquid The compn.s contain solvents such as propylene glycol, thickening agents such as cellulose derivs. and stabilizers such as 1-hydroxyethylidene-1,1-diphosphonic acid. The inventive system allows for water in the composition to avoid tissue desiccation and associated user discomfort, without compromising the shelf life of the composition

ST tooth whitening compn peroxide

IT Dentifrices
Stabilizing agents
Thickening agents
Tooth
(teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide)

IT Peroxides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide)

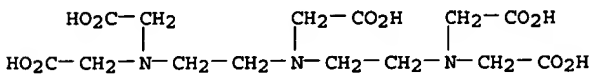
IT 124-43-6, Carbamide peroxide 7722-84-1, Hydrogen peroxide, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide)

IT 56-81-5, Glycerol, biological studies 57-55-6, Propylene glycol, biological studies 64-02-8, Tetrasodium EDTA 64-17-5, Ethanol, biological studies **140-01-2** 148-24-3, 8-Quinolinol, biological studies 150-25-4, Diethanol glycine **2809-21-4**, 1-Hydroxyethylidene-1,1-diphosphonic acid 5064-31-3, Trisodium nitrilotriacetate 6419-19-8, Aminotrimethylenephosphonic acid 7487-88-9, Magnesium sulfate, biological studies 7681-49-4, Sodium fluoride, biological studies 7722-88-5, Sodium pyrophosphate 7732-18-5, Water, biological studies 7758-29-4, Sodium tripolyphosphate 7783-47-3, Stannous fluoride 7784-30-7, **Aluminum** phosphate 9004-32-4, Sodium cm cellulose 9004-34-6D, Cellulose, ethers 10163-15-2, Sodium monofluorophosphate 11138-49-1, Sodium aluminate 12773-27-2, Sodium tin oxide 13870-30-9, Sodium trisilicate **15827-60-8**, Diethylenetriamine penta(methylenephosphonic acid) 16871-71-9, Zinc hexafluorosilicate 16893-85-9
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide)

IT **140-01-2** **2809-21-4**, 1-Hydroxyethylidene-1,1-diphosphonic acid **15827-60-8**, Diethylenetriamine penta(methylenephosphonic acid)
RL: COS (Cosmetic use); MOA (Modifier or additive use); BIOL (Biological study); USES (Uses)
(teeth whitening system based on the combination of hydrogen peroxide and carbamide peroxide)

RN 140-01-2 HCAPLUS

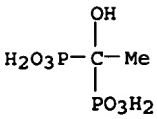
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt (8CI, 9CI) (CA INDEX NAME)



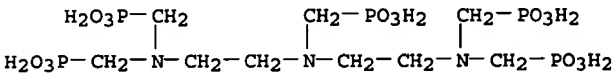
●5 Na

RN 2809-21-4 HCAPLUS

CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 15827-60-8 HCAPLUS
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



L74 ANSWER 3 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2004:628693** HCAPLUS
DN 141:162435
ED Entered STN: 05 Aug 2004
TI Deodorant water-absorbing fabrics and washable diapers having the absorbents
IN Sano, Shinji; Shintaku, Tomonori; Horiike, Taizo
PA Toray Industries, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61F013-49
ICS A61F005-44; A61F005-441; A61F013-15; A61F013-53; A61L009-01; B32B005-26; D04H001-40; A61F013-472
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 40
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004215693	A2	20040805	JP 2003-3086	20030109
PRAI JP 2003-3086		20030109		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2004215693	ICM	A61F013-49
	ICS	A61F005-44; A61F005-441; A61F013-15; A61F013-53; A61L009-01; B32B005-26; D04H001-40; A61F013-472
JP 2004215693	FTERM	3B029/BA14; 3B029/BB01; 3B029/BC03; 3B029/BD22; 3B029/BG05; 4C003/AA16; 4C003/BA01; 4C003/CA01; 4C003/HA01; 4C080/AA03; 4C080/AA05; 4C080/AA06; 4C080/BB02; 4C080/CC03; 4C080/CC05; 4C080/CC08; 4C080/CC12; 4C080/JJ09; 4C080/KK08; 4C080/LL03; 4C080/LL10; 4C080/MM01; 4C080/MM02; 4C080/MM05; 4C080/MM06; 4C080/MM14; 4C080/MM18; 4C080/NN22; 4C098/AA09; 4C098/CC02; 4C098/CC19; 4C098/DD05; 4C098/DD06; 4C098/DD10; 4C098/DD17; 4C098/DD21; 4C098/DD27; 4F100/AA03A; 4F100/AA20A; 4F100/AB02A; 4F100/AB10A; 4F100/AB11A; 4F100/AB17A; 4F100/AB18A; 4F100/AB24A; 4F100/AD11A; 4F100/AH02A; 4F100/AK42; 4F100/AK48; 4F100/CA30A; 4F100/CA30B; 4F100/DG01; 4F100/DG11A; 4F100/DG11B; 4F100/DG15A; 4F100/DG15B; 4F100/JD02; 4F100/JD15A; 4F100/JD15B; 4F100/YY00; 4L047/AA21; 4L047/AA23; 4L047/AA27; 4L047/AB02; 4L047/AB07; 4L047/AB08; 4L047/BA04; 4L047/CA02; 4L047/CB10; 4L047/CC04

AB The water absorbent have void content .gtoreq.10 cm3/100 cm2 and thickness 1-20 mm, and mainly comprise synthetic fibers with denier per filament 0.01-2 dtex. Also claimed are reusable diapers having an air-permeable top sheet, a liquid-impermeable back sheet, and the water absorbent. The absorbents show good water absorbency, high deodorant effect, and washing resistance, and have reduced wetness on the surface. Thus, a nonwoven fabric, prepared by splitting poly(butylene terephthalate)-nylon 6 composite fibers and interlaced by water jet, was impregnated with an aqueous composition containing Al silicate, **diethylenetriaminepentaacetic acid**, and TiO2, squeezed using a mangle, and dried at 160.degree. to give a water absorbent fabric. The fabric eliminated odors of NH3, MeSH,

skatole, and indole and inhibited growth of MRSA and MSSA.

ST deodorant water absorbing nonwoven fabric split fiber washable diaper; aminopolycarboxylic acid deodorant water absorbing fabric washable diaper

IT Polyamide fibers, biological studies
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(6, biconstituent with poly(butylene terephthalate) fiber, split, nonwoven fabric; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Carboxylic acids, biological studies
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(aliphatic; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Absorbents
Deodorants
Diapers
(deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Bentonite, biological studies
Polyamides, biological studies
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Porous materials
(deodorants; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Carboxylic acids, biological studies
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorants; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Aluminosilicates, biological studies
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorants; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Antibacterial agents
(industrial; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Polyester fibers, biological studies
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(poly(tetramethylene terephthalate), biconstituent with nylon 6 fiber, split, nonwoven fabric; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT Amino acids, biological studies
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polycarboxylic; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 7440-44-0, Activated carbon, biological studies
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(activated, deodorant; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 60-00-4, Ethylenediaminetetraacetic acid, biological studies
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 74-93-1, Methyl mercaptan, processes 83-34-1, Scatole 120-72-9, Indole, processes 7664-41-7, Ammonia, processes
RL: REM (Removal or disposal); PROC (Process)
(deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT **67-43-6, Diethylenetriaminepentaacetic acid**
1335-30-4, **Aluminum** silicate 7631-86-9, Sylysia 550, biological studies 13463-67-7, Titania, biological studies 428874-66-2, SZ 2B
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorant; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 26062-94-2, Poly(butylene terephthalate)

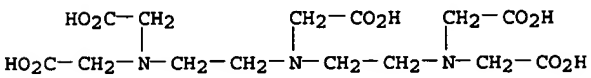
RL: REM (Removal or disposal); PROC (Process)
(fiber, biconstituent with nylon 6 fiber, split, nonwoven fabric; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 24968-12-5, Poly(butylene terephthalate)
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fiber, biconstituent with nylon 6 fiber, split, nonwoven fabric; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT 25038-54-4, Nylon 6, biological studies
RL: TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fiber, biconstituent with poly(butylene terephthalate) fiber, split, nonwoven fabric; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

IT **67-43-6, Diethylenetriaminepentaacetic acid**
RL: BSU (Biological study, unclassified); TEM (Technical or engineered material use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(deodorant; deodorant water-absorbing fabrics comprising synthetic fibers and washable diapers having the absorbents)

RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



L74 ANSWER 4 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2004:219814** HCAPLUS
DN 140:258665
ED Entered STN: 19 Mar 2004
TI Dentifrice compositions comprising talc and fluoride and abrasive
IN Yang, Lijiang; Yue, Jiang; Fei, Yunbin; Wang, Yun; Xu, Xiujun
PA The Procter & Gamble Company, USA
SO U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-18
NCL 424052000
CC 62-7 (Essential Oils and Cosmetics)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004052736	A1	20040318	US 2003-618472	20030711
WO 2004024112	A1	20040325	WO 2003-US28614	20030911

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2002-410094P P 20020912
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004052736	ICM	A61K007-18
	NCL	424052000

AB A dentifrice composition comprises 1-50% talc, a fluoride salt that provides 1-3000 ppm fluoride, 5-50% by weight an abrasive polishing material, 30-90% of 1 or more aqueous carriers. The dentifrice composition has a pH of .gtoreq.8 at 25.degree.. Thus, a formulation contained NaF 0.20, talc, 10.0, 70% sorbitol solution 45.0, precipitated silica 15.0 27.9 solution sodium alkyl sulfate 7.5, trisodium phosphate 1., sodium CMC 1.0, carbomer-956 0.3, sodium saccharin 0.25, TiO2 (Rutile) 0.25, flavor 0.9, and water 17.8%.

ST dentifrice talc abrasive fluoride
IT Abrasives

Chelating agents
Dentifrices
Dyes
Flavoring materials
Humectants
Polishing
Surfactants
Sweetening agents
Thickening agents
(dentifrice compns. comprising talc and fluoride and abrasive)

IT Carbonates, biological studies
Diphosphates
Phosphates, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising talc and fluoride and abrasive)

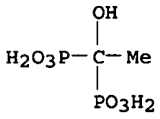
IT Polyphosphoric acids
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(sodium salts; dentifrice compns. comprising talc and fluoride and abrasive)

IT Polyphosphates
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(triphosphates; dentifrice compns. comprising talc and fluoride and abrasive)

IT 60-00-4, EDTA, biological studies 64-19-7, Acetic acid, biological studies 77-92-9, biological studies 83-86-3, Phytic acid 87-69-4, biological studies 541-50-4, Diacetic acid, biological studies 1317-80-2, Rutile **2809-21-4**, EHDP 7631-97-2, Sodium fluorophosphate 7681-49-4, Sodium fluoride, biological studies 7783-47-3, Stannous fluoride 7783-49-5, Zinc fluoride 7784-18-1, **Aluminum** fluoride 7789-23-3, Potassium fluoride 12304-65-3, Hydrotalcite 13463-67-7, Titanium dioxide, biological studies 14807-96-6, Talc, biological studies 16984-48-8, Fluoride, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising talc and fluoride and abrasive)

IT **2809-21-4**, EHDP
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising talc and fluoride and abrasive)

RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 5 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2004:18717** HCAPLUS
DN 140:81858
ED Entered STN: 09 Jan 2004
TI Hair relaxer compositions generating hydroxide ions with a visual indicator
IN Nguyen, Nghi Van; Cannell, David W.
PA L'Oreal, S.A., USA
SO U.S. Pat. Appl. Publ., 10 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM A61K007-06
ICS A61K007-09
NCL 424070200; 424070400
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004005284	A1	20040108	US 2002-183431	20020628
US 6800277	B2	20041005		
PRAI US 2002-183431		20020628		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2004005284	ICM	A61K007-06

ICS A61K007-09
NCL 424070200; 424070400
US 2004005284 ECLA A61K008/19; A61K008/365; A61K008/44; A61Q005/04

AB A method for lanthionizing keratin fibers to achieve relaxation using a combination of at least one carbonate compound, at least one chelating acid, and at least one hydroxide compound, as well as multicomponent kits for lanthionizing keratin fibers are provided. For example, a calcium hydroxide cream was prepared containing (by weight) cetyl alc. 1.0%, Steareth-2 0.5%, Steareth-10 2.5%, mineral oil 15.0%, petrolatum 5.5%, cetearyl alc. and cetearyl phosphate 7.5%, propylene glycol 3.0%, calcium hydroxide 5.0%, and water 60.0%. Relaxers formed from calcium hydroxide cream and Na2EDTA and KHCO3 can straighten natural kinky hair.

ST carbonate chelating acid hydroxide hair relaxer kit

IT Chelating agents
(acid; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Sulfonic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(amino; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Surfactants
(amphoteric; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Surfactants
(anionic; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Surfactants
(cationic; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(chelating; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Cream
Emulsions
Foams
Gels
Pastes
Solutions
Sunscreens
Suspensions
(hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Alcohols, biological studies
Alkali metal hydroxides
Alkaline earth hydroxides
Amino acids, biological studies
Carbonates, biological studies
Crown ethers
Hydrocarbon oils
Hydroxides (inorganic)
Polymers, biological studies
Polysiloxanes, biological studies
Proteins
Thiols (organic), biological studies
Vitamins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

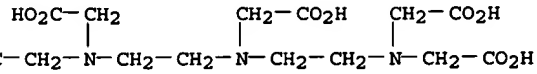
IT Actinide compounds
Rare earth compounds
Transition metal compounds
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydroxides; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Carboxylic acids, biological studies
Sulfonic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydroxy; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Keratins
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(lanthionizing of; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)

IT Surfactants
(nonionic; hair relaxer compns. comprising carbonate compound, chelating

acid, and hydroxide compound with visual indicator)
IT Hair preparations
(straighteners; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT Amines, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(sulfo-; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT Hydroxides (inorganic)
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(transition metal; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT Fats and Glyceridic oils, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(vegetable; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT Surfactants
(zwitterionic; hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT 60-00-4, Ethylenediamine tetraacetic acid, biological studies
67-43-6, Diethylenetriaminepentaacetic acid
77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid, biological studies 93-62-9, N-2-Hydroxyethyliminodiacetic acid 139-13-9, Nitrilotriacetic acid 139-33-3, Disodium edetate 150-39-0, N-(Hydroxyethyl)ethylenediamine triacetic acid 298-14-6, Potassium bicarbonate 497-19-8, Sodium carbonate, biological studies 584-08-7, Potassium carbonate 866-84-2, Potassium citrate 1305-62-0, Calcium hydroxide, biological studies 1309-42-8, Magnesium hydroxide 2817-45-0, Aminophosphonic acid 6419-19-8, Aminotrimethylenephosphonic acid 7408-20-0, Iminodisuccinic acid 12672-51-4, Cobalt hydroxide 17194-00-2, Barium hydroxide 18480-07-4, Strontium hydroxide 18933-05-6, Manganese hydroxide 20427-58-1, Zinc hydroxide 20427-59-2, Cupric hydroxide 21645-51-2, **Aluminum** hydroxide, biological studies 100224-74-6, Guanidine carbonate 126853-99-4, Molybdenum hydroxide 148124-42-9, N-Lauroyl-N,N',N'-ethylenediaminetriacetic acid
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT 463-79-6, Carbonic acid, formation (nonpreparative)
RL: FMU (Formation, unclassified); FORM (Formation, nonpreparative)
(hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
IT **67-43-6, Diethylenetriaminepentaacetic acid**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair relaxer compns. comprising carbonate compound, chelating acid, and hydroxide compound with visual indicator)
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



L74 ANSWER 6 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2003:502162** HCAPLUS
DN 139:218951
ED Entered STN: 02 Jul 2003
TI Cosmetic composition for protection of skin against ultraviolet rays
IN Allakhverdov, G. R.; Matkovskaya, T. A.; Sevast'yanov, V. G.; Akol'tseva, A. Yu.
PA Obshchestvo s Ogranichennoi Otvetstvennost'yu "Institut Farmatsevticheskikh Reaktivov Refarm", Russia
SO Russ., No pp. given
CODEN: RUXXE7
DT Patent
LA Russian
IC ICM A61K007-40
ICS A61K007-42
CC 62-4 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI RU 2203033 C2 20030427 RU 2001-108282 20010329
PRAI RU 2001-108282 20010329
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
RU 2203033	ICM	A61K007-40
	ICS	A61K007-42

AB The cosmetic composition comprises 0.1-15 weight % of metal oxide nanopigment of lamellar form taken among the group of **zirconium**, titanium, zinc, cerium oxides or their compns. and also 0.1-20 weight % of cosmetically acceptable bis-phosphonate with cosmetically acceptable base showing UV-protective functions. Composition expands assortment of agents used for protection of skin against UV rays. Invention can be used in production of external cosmetic agents used for protection of skin against effect of UV rays.

ST sunscreen nanopigment **zirconium** titanium zinc cerium oxide bisphosphonate

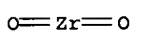
IT Sunscreens
(cosmetic composition for protection of skin against UV rays)

IT Particle size
(nanoscale; cosmetic composition for protection of skin against UV rays)

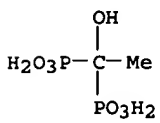
IT 1306-38-3, Cerium oxide, biological studies 1314-13-2, Zinc oxide, biological studies **1314-23-4**, **Zirconium** oxide, biological studies 13463-67-7, Titanium oxide, biological studies 13598-36-2D, Phosphonic acid, alkylidenebis- derivs. **134579-07-0**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition for protection of skin against UV rays)

IT **1314-23-4**, **Zirconium** oxide, biological studies
134579-07-0
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(cosmetic composition for protection of skin against UV rays)

RN 1314-23-4 HCAPLUS
CN Zirconium oxide (ZrO2) (8CI, 9CI) (CA INDEX NAME)



RN 134579-07-0 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis-, potassium sodium salt (9CI) (CA INDEX NAME)



x K

x Na

L74 ANSWER 7 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2003:394815** HCAPLUS
DN 138:406632
ED Entered STN: 23 May 2003
TI Dentifrice compositions comprising diglycerol
IN Stier, Roger E.
PA Noville, Inc., USA
SO Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM A61K007-16
CC 62-7 (Essential Oils and Cosmetics)
FAN.CNT 4

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI EP 1312354 A1 20030521 EP 2002-90372 20021111
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK
US 2003091514 A1 20030515 US 2001-8844 20011113
US 2003095931 A1 20030522 US 2002-266493 20021008
US 6723304 B2 20040420
PRAI US 2001-8844 A 20011113
US 2002-266493 A 20021008

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1312354	ICM	A61K007-16
EP 1312354	ECLA	A61K008/34D; A61Q011/00
US 2003095931	ECLA	A61K008/34D; A61Q011/00

AB The invention relates to oral care compns. such as toothpaste, gels, tooth powders, mouthwashes, mouth rinses, gums, mouth sprays and lozenges comprising diglycerol. The diglycerol is used as a humectant in the compns. The compns. may further comprise water, flavoring agents, active compds., emulsifier, alc., sweeteners, thickening agents, surfactants, suspending agents, astringent and toning drug exts., abrasives or polishes, deodorizing agents, preservatives, flavoring buffers, whitening agents, wound-healing and inflammation inhibiting substances, colorants, dyes, pigments, abrasives, polishes, antimicrobial agents, pH buffers and other additives and fillers. Thus, mouthrinse gels contained PEG 3.00, CMC 0.50, carrageenan 0.30, diglycerol 30.00, saccharin 0.30, licorice extract 0.20, silica 15.00, pigments 1.01, TiO2 0.10, sorbitol 36.20, flavoring 2.00, surfactant 1.15 and water qs to 100%.

ST dentifrice diglycerol surfactant flavoring

IT Glycerides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C8-10; dentifrice compns. comprising diglycerol)

IT Amides, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(N-(hydroxyalkyl), sulfates; dentifrice compns. comprising diglycerol)

IT Sulfonic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(alkanesulfonic, salts, C12-18; dentifrice compns. comprising diglycerol)

IT Skin preparations (pharmaceutical)
(astringents; dentifrice compns. comprising diglycerol)

IT Vinyl compounds, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(carboxy-containing, polymers; dentifrice compns. comprising diglycerol)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(clove; dentifrice compns. comprising diglycerol)

IT Chamomile
(components of; dentifrice compns. comprising diglycerol)

IT Abrasives
Anti-inflammatory agents
Antimicrobial agents
Buffers
Cassia
Cinnamon (spice)
Citrus limon
Citrus sinensis
Dentifrices
Deodorants
Dyes
Emulsifying agents
Flavoring materials
Gums and Mucilages
Humectants
Maranta arundinacea
Mouthwashes
Origanum
Pigments, nonbiological
Preservatives
Salvia
Surfactants
Sweetening agents
Thickening agents
Vanilla
Wound healing promoters
(dentifrice compns. comprising diglycerol)

IT Alcohols, biological studies

Chalk
Clays, biological studies
Phosphates, biological studies
Polyesters, biological studies
Polyoxyalkylenes, biological studies
Thaumatins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising diglycerol)

IT Diglycerides
Monoglycerides
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(ethoxylated; dentifrice compns. comprising diglycerol)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(eucalyptus; dentifrice compns. comprising diglycerol)

IT Dentifrices
(gels; dentifrice compns. comprising diglycerol)

IT Castor oil
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrogenated, ethoxylated, Cremophor RH 40; dentifrice compns. comprising diglycerol)

IT Drug delivery systems
(lozenges; dentifrice compns. comprising diglycerol)

IT Fats and Glyceridic oils, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(parsley; dentifrice compns. comprising diglycerol)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(peppermint; dentifrice compns. comprising diglycerol)

IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyhydric; dentifrice compns. comprising diglycerol)

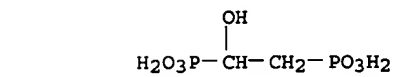
IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(spearmint; dentifrice compns. comprising diglycerol)

IT Monoglycerides
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(sulfates; dentifrice compns. comprising diglycerol)

IT Essential oils
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(wintergreen; dentifrice compns. comprising diglycerol)

IT 50-70-4, Sorbitol, biological studies 50-78-2D, Acetylsalicylic acid, derivs. 56-81-5, Glycerol, biological studies 57-13-6, Urea, biological studies 57-48-7, Fructose, biological studies 57-55-6, Propylene glycol, biological studies 69-65-8, Mannitol 77-92-9, Citric acid, biological studies 78-70-6, Linalool 79-20-9, Methyl acetate 81-07-2, Saccharin 81-07-2D, Saccharin, salts 87-99-0, Xylitol 89-78-1, Menthol 89-83-8, Thymol 94-13-3, Propyl p-Hydroxybenzoate 94-86-0D, Propenylguaethol, derivs. 97-53-0, Eugenol 97-59-6, Allantoin 98-11-3D, Benzenesulfonic acid, C12-16-alkyl esters 99-76-3, Methyl p-Hydroxybenzoate 99-96-7, p-Hydroxybenzoic acid, biological studies 100-88-9D, Cyclamate, salts 104-46-1, Anethole 104-55-2D, Cinnamaldehyde, glycerol acetals 107-36-8D, Isethionic acid, acyl derivs. 119-36-8, Methyl salicylate 120-47-8, Ethyl p-Hydroxybenzoate 123-03-5, CPC 128-44-9, Sodium Saccharin 139-05-9, Sodium Cyclamate 151-21-3, Sodium lauryl sulfate, biological studies 153-94-6, D-Tryptophan 275-51-4, Azulene 470-82-6, Eucalyptol 471-34-1, Calcium carbonate, biological studies 532-32-1, Sodium benzoate 538-71-6, Domiphen bromide 585-88-6, Maltitol 623-39-2, 3-Methoxypropane-1,2-diol 814-80-2, Calcium lactate 994-36-5, Sodium citrate 1306-06-5, Hydroxylapatite 1335-30-4, **Aluminum** silicate 1344-28-1, **Aluminum** oxide, biological studies 2243-42-7D, esters 3380-34-5, Triclosan 4316-73-8, Sodium sarcosinate **6851-61-2** 7440-66-6D, Zinc, salts 7631-86-9, Silica, biological studies 7631-97-2, Sodium monofluorophosphate 7664-93-9D, Sulfuric acid, C12-18-alkyl esters, sodium salts 7681-49-4, Sodium fluoride, biological studies 7757-81-5, Sodium sorbate 7757-93-9, Dicalcium phosphate 7783-47-3, Stannous fluoride 8013-90-9D, Irisone, derivs. 9000-01-5, Gum arabic 9000-07-1, Carrageenan 9000-30-0, Guar gum 9000-40-2, Locust bean gum 9000-65-1, Tragacanth gum 9003-39-8, Polyvinylpyrrolidone 9004-32-4, Carboxymethyl cellulose 9004-62-0, Hydroxyethyl cellulose 9004-67-5, Methyl cellulose 9005-25-8, Starch, biological studies 9005-27-0, Hydroxyethyl starch 10049-04-4, Chlorine dioxide 10086-45-0, Calcium pyrophosphate 11138-66-2, Xanthan gum 13463-67-7, Titanium oxide, biological studies 14000-31-8, Pyrophosphate 15435-29-7, Bromochlorophene 16984-48-8, Fluoride, biological studies

21645-51-2, Aluminum oxide trihydrate, biological studies
22839-47-0, Aspartame 25322-68-3, Polyethylene glycol 33665-90-6,
Acesulfame 37353-59-6, Hydroxymethyl cellulose 39421-75-5,
Hydroxypropyl guar 50813-16-6, Sodium metaphosphate 51757-43-8,
1-Phosphonopropane-1,2,3-tricarboxylic acid 52993-54-1, Menthane
59113-36-9, Diglycerol 64519-82-0, Isomalt 65560-17-0D, derivs.
68190-68-1, Sodium Hydroxymethyl cellulose 97445-23-3, Gelcarin DG
106392-12-5, Polyethylene glycol-polypropylene glycol block copolymer
528610-52-8, Magnasweet 120 528815-14-7, Timiron MP 49
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising diglycerol)
RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Henkel KGAA; DE 19624870 A 1998 HCAPLUS
(2) Henkel KGAA; DE 10015662 A 2001 HCAPLUS
(3) Procter & Gamble; WO 9628133 A 1996 HCAPLUS
IT **6851-61-2**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(dentifrice compns. comprising diglycerol)
RN 6851-61-2 HCAPLUS
CN Phosphonic acid, (1-hydroxy-1,2-ethanediyl)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 8 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2003:376602** HCAPLUS
DN 138:390553
ED Entered STN: 16 May 2003
TI Beta-glucuronidase inhibitors for use in deodorants and antiperspirants
IN Banowski, Bernhard; Wadle, Armin; Saettler, Andrea; Hoffmann, Daniele;
Gerke, Thomas; Siegert, Petra
PA Henkel Kommanditgesellschaft Auf Aktien, Germany
SO PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM A61K007-32
CC 62-4 (Essential Oils and Cosmetics)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003039505	A2	20030515	WO 2002-EP11981	20021026
	WO 2003039505	A3	20031127		
	W: AU, BR, CA, CN, EE, HR, HU, IN, JP, LT, LV, MX, NO, NZ, PL, RO, SI, UA, US				
	RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR				
	DE 10154368	A1	20030515	DE 2001-10154368	20011106
	EP 1441691	A2	20040804	EP 2002-802630	20021026
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, SK				
	US 2004234466	A1	20041125	US 2004-838930	20040504
PRAI	DE 2001-10154368	A	20011106		
	WO 2002-EP11981	W	20021026		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2003039505	ICM	A61K007-32
DE 10154368	ECLA	A61K008/02C; A61K008/04F; A61K008/06C; A61K008/20; A61K008/27; A61K008/34; A61K008/34D; A61K008/34F; A61K008/5; A61K008/36; A61K008/365; A61K008/44; A61K008/49C2; A61K008/49H; A61K008/49H2; A61K008/55; A61K008/60A; A61K008/67H; A61K008/97; A61K008/97C; A61Q015/00

OS MARPAT 138:390553
AB The invention relates to the non-therapeutic use of selected .beta.-glucuronidase inhibiting substances in a cosmetic deodorant or antiperspirant composition in order to reduce body odor caused by the decomposition of steroid esters. Thus a water-free antiperspirant stick contained (weight parts): silicone oil DC245 28; Eutanol G 16; Ucon Fluid AP 5; Cutina HR 6; Lorol C18 20; Eumulgin B3 3; aluminum chlorohydrate 20; talc

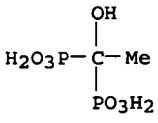
7.9; isopulegol 0.1.
ST deodorant beta glucoronidase inhibitor
IT Antiperspirants
Deodorants (personal)
(Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Flavonoids
Isoflavonoids
Tannins
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Aglycons
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(anthocyanidins; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Tea products
(beverages, green, extract of; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Bacopa monnieri
Camellia japonica
Emblica
Hyssopus officinalis
Ilex paraguariensis
Phyllanthus emblica
Pinus pinaster
Rosmarinus officinalis
Salix
Serenoa repens
Spirulina platensis
(extract of; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Olea europaea
(leaf, extract of; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Amino acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(mycosporin-like; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT Glycosides
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(raspberry ketone derivs.; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)
IT 50-21-5, Lactic acid, biological studies 50-81-7D, Ascorbic acid, glucosides 52-90-4, L-Cysteine, biological studies 56-40-6, Glycine, biological studies 56-41-7, L-Alanine, biological studies 56-45-1, L-Ser, biological studies 56-84-8, L-Asparaginic acid, biological studies 56-85-9, L-Glutamine, biological studies 56-86-0, L-Glutamic acid, biological studies 56-87-1, L-Lysine, biological studies 60-12-8, Phenylethylalcohol 60-18-4, L-Tyrosine, biological studies 60-81-1, Phlorizin 61-90-5, L-Leucine, biological studies 63-68-3, L-Methionine, biological studies 63-91-2, L-Phenylalanine, biological studies 69-72-7, Salicylic acid, biological studies 70-47-3, L-Asparagine, biological studies 71-00-1, L-Histidine, biological studies 72-18-4, L-Valine, biological studies 72-19-5, L-Threonine, biological studies 73-22-3, L-Tryptophane, biological studies 73-32-5, L-Isoleucine, biological studies 74-79-3, L-Arginine, biological studies 77-92-9D, Citric acid, esters with saccharides 79-14-1, Glycolic acid, biological studies 83-86-3, Phytic acid 87-66-1, Pyrogallol 87-69-4D, esters with saccharides 89-79-2, Isopulegol 89-86-1, 2,4-Dihydroxy benzoic acid 90-64-2, Almond acid 98-79-3, Pyroglutamic acid 99-10-5, 3,5-Dihydroxy benzoic acid 99-50-3, 3,4-Dihydroxy benzoic acid 106-24-1, Geraniol 108-46-3, Resorcin, biological studies 108-73-6, Phloroglucin 120-80-9, 1,2-Benzenediol, biological studies 122-99-6, Phenoxyethanol 123-31-9, Hydroquinone, biological studies 125-46-2, Usnic acid 133-37-9D, Racemic acid, esters with saccharides 137-66-6, Ascorbylpalmitate 147-71-7D, esters with saccharides 147-73-9D, Erythraric acid, esters with saccharides 147-85-3, L-Proline, biological studies 149-91-7, Gallic acid, biological studies 153-18-4, Rutin 154-23-4, Catechin 303-07-1, 2,6-Dihydroxy benzoic acid 303-38-8, 2,3-Dihydroxy benzoic acid 327-97-9, Chlorogenic acid 331-39-5, Caffeic acid 446-72-0, Genistein 480-35-3, Eriodictin 485-72-3, Formononetin 486-66-8, Daidzein 490-79-9, 2,5-Dihydroxy benzoic acid 499-44-5 501-30-4, Kojic acid 520-27-4, Diosmine 526-95-4, Gluconic acid 526-99-8, Galactaric acid 526-99-8D, Galactaric acid, esters with saccharides 527-09-3, Copper gluconate

529-59-9, Genistin 536-08-3, Digallic acid 552-66-9, Daidzin 578-74-5 600-15-7, .alpha.-Hydroxybutyric acid 608-80-0, Hexahydroxybenzene 617-31-2, .alpha.-Hydroxyvaleric acid 685-73-4, Galacturonic acid 866-84-2, Tripotassium citrate 1115-67-9D, Hydroxymaleic acid, esters with saccharides 1135-24-6, Ferulic acid 1198-84-1, p-Hydroxymandelic acid 1327-41-9, Basic aluminum chloride 2131-66-0 **2809-21-4** 4468-02-4, Zinc gluconate 6064-63-7, Hexanoic acid, 2-hydroxy- 6543-97-1D, Mannaric acid, esters with saccharides 6703-05-5D, Arabinaric acid, esters with saccharides 6906-37-2, Mannonic acid 6915-15-7D, Hydroxysuccinic acid, esters with saccharides 7085-55-4, Troxerutin 7439-95-4D, Magnesium, glucoheptonate complexes 7733-02-0D, Zinc sulfate, cocoyl 10158-64-2D, Xylaric acid, esters with saccharides 10236-47-2, Naringin 13040-19-2, Zinc ricinoleate 13241-33-3, Neohesperidin 13425-76-8, D-Fructuronic acid 13752-83-5, Arabinonic acid 15454-75-8 **15827-60-8**, Diethylene triamine penta(methylene phosphonic acid) 16039-53-5, Zinc lactate 16800-66-1 17812-24-7, Ribonic acid 17828-56-7, Xylonic acid 18604-50-7, Eugenylglucoside 20283-92-5, Rosmarinic acid 20702-77-6, Neohesperidindihydrochalcone 22042-96-2, **Dequest** 2066 23351-51-1, Glucoheptonic acid 23351-51-1D, Glucoheptonic acid, magnesium complexes 23869-24-1, Monoxerutin 25525-21-7D, Glucaric acid, esters with saccharides **29329-71-3**, **Dequest** 2016D 33012-62-3D, Ribaric acid, esters with saccharides 38963-94-9 40957-83-3, Glycitein 51222-59-4 53910-28-4, Disodium ascorbylsulfate 64052-89-7 90689-40-0D, D-arabino-2-Hexulosaric acid, esters with saccharides 128197-63-7 128808-26-4 130603-71-3, .alpha.-Glucosylrutin 132697-38-2 135322-32-6, Chitosan ascorbate 142174-80-9D, Hydroxypimelic acid, esters with saccharides 143454-48-2D, Hydroxyglutaric acid, esters with saccharides 143549-76-2 170492-24-7, **Trilon** M 210049-80-2D, Hydroxyadipic acid, esters with saccharides 221904-13-8 221904-19-4 270258-23-6, Eucarol AGE-SS 270258-24-7, Eucarol AGE-EC 301646-84-4, Eucarol AGE-ET 434328-18-4 525561-15-3D, esters with saccharides 525595-74-8, Bacocalmine 525595-75-9, Ederline H 525595-77-1, Eurol BT 525595-78-2, Pantrofina PC 525595-79-3, Dermawhite HS-LS 8110B 525595-80-6, Ferulan Proactiv 525595-81-7, Dermosoft HMA 525595-82-8, Tinocare CP
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)

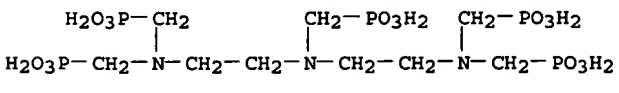
IT 9001-45-0, .beta.-Glucuronidase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors of; Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)

IT **2809-21-4** **15827-60-8**, Diethylene triamine penta(methylene phosphonic acid) **29329-71-3**, **Dequest** 2016D
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(Beta-glucuronidase inhibitors for use in deodorants and antiperspirants)

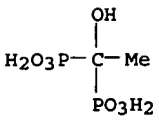
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 15827-60-8 HCAPLUS
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



RN 29329-71-3 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis-, sodium salt (9CI) (CA INDEX NAME)



x Na

L74 ANSWER 9 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2003:5468** HCAPLUS
DN 138:41044
ED Entered STN: 03 Jan 2003
TI Compositions and methods for removing silver-oxide
IN Everson, Terrence P.; Anderson, Bryan
PA Ecolab Inc., USA
SO U.S. Pat. Appl. Publ., 5 pp.
CODEN: USXXCO
DT Patent
LA English
IC ICM C11D001-00
NCL 510108000; 510467000; 510505000
CC 46-6 (Surface Active Agents and Detergents)
FAN.CNT 1

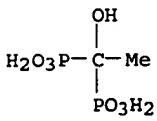
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2003004073	A1	20030102	US 2001-876294	20010607
PRAI US 2001-876294		20010607		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 2003004073	ICM	C11D001-00
	NCL	510108000; 510467000; 510505000
US 2003004073	ECLA	C11D003/00B8; C11D007/26A; C11D007/26D; C11D007/26K; C11D007/36

AB The present invention is directed to compns. for removing silver soil from the surface of objects. These compns. contain a reducing agent, and an alkaline source, and may optionally contain various other components including a chelating agent, cleaning agent, filler, an anticorrosion agent, a defoaming agent, an odorant, a dye, an antioxidant, or a bleaching agent. Methods of using the compns. are also disclosed, wherein the object to be cleaned is contacted with the composition and the object is then washed with an aqueous solution
ST silver oxide removing cleaning compn
IT Antifoaming agents
Antioxidants
Bleaching agents
Chelating agents
Cleaning solvents
Corrosion inhibitors
Dyes
Fillers
Odor and Odorous substances
Reducing agents
(compns. and methods for removing silver-oxide)
IT Alkali metal hydroxides
RL: TEM (Technical or engineered material use); USES (Uses)
(compns. and methods for removing silver-oxide)
IT **2809-21-4**, 1-Hydroxyethylidene-1,1-diphosphonic acid
RL: TEM (Technical or engineered material use); USES (Uses)
(chelating agent; compns. and methods for removing silver-oxide)
IT 20667-12-3, Silver-oxide
RL: REM (Removal or disposal); PROC (Process)
(compns. and methods for removing silver-oxide)
IT 497-19-8, Sodium carbonate, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(compns. and methods for removing silver-oxide)
IT **7429-90-5**, **Aluminum**, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(reducing agent; compns. and methods for removing silver-oxide)
IT **2809-21-4**, 1-Hydroxyethylidene-1,1-diphosphonic acid
RL: TEM (Technical or engineered material use); USES (Uses)

(chelating agent; compns. and methods for removing silver-oxide)
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



IT **7429-90-5, Aluminum**, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(reducing agent; compns. and methods for removing silver-oxide)
RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

L74 ANSWER 10 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2002:924299** HCAPLUS
DN 138:8249
ED Entered STN: 05 Dec 2002
TI Use of arylsulfatase inhibitors in deodorants and antiperspirants
IN Banowski, Bernhard; Hoffmann, Daniele; Wadle, Armin; Siegert, Petra; Saettler, Andrea; Gerke, Thomas
PA Henkel Kgaa, Germany
SO Ger. Offen., 22 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM A61K007-32
CC 62-4 (Essential Oils and Cosmetics)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 10137901	A1	20021205	DE 2001-10137901	20010802
WO 2001099376	A3	20021121	WO 2001-EP10213	20010905
W: AU, CZ, EE, HR, HU, IN, LT, LV, NO, NZ, PL, RO, SI, SK, UA				
RW: AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
PRAI DE 2001-10126667	A1	20010601		
DE 2001-10137901	A	20010802		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 10137901	ICM	A61K007-32
DE 10137901	ECLA	A61K008/26; A61K008/97; A61Q015/00; A61K008/34; A61K008/34C; A61K008/365; A61K008/368; A61K008/37C; A61K008/4; A61K008/49C2; A61K008/49F; A61K008/49H; A61K008/55; A61K008/60; A61K008/67H; A61K008/67L; A61K008/891;

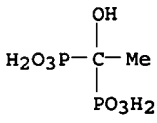
OS MARPAT 138:8249
AB The invention concerns the use of arylsulfatase inhibitors in deodorants and antiperspirants to decrease body odor caused by decomposition of steroid esters. Deodorant sticks, microemulsion sprays, roll-ons and deodorant tissues are prepared Thus a water-free deodorant sick included (weight/weight%): silicon oil DC 245 28; Eutanol G16 10; Ucon Fluid AP 5; Cutina HR 6; Lorol C18 20; Eumulgin B3 3; aluminum chlorohydrate 20; talc 8; .alpha.-hydroxylauric acid 0.1.
ST arylsulfatase inhibitor deodorant antiperspirant
IT Carboxylic acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(C2-C12 and derivs.; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
([(aminoethyl)amino]propyl hydroxy, di-Me, trimethylsilyl; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
([(aminoethyl)amino]propyl hydroxy, di-Me; use of arylsulfatase

inhibitors in deodorants and antiperspirants)
IT Polysiloxanes, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(di-Me, 3-[3-[(3-coco amidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts); use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(fatty, esters, with sulfuric acid; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Castor oil
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hydrogenated; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Embryophyta
(medicinal plant, exts.; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Amino acids, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(mycosporine-like amino acids; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Citrus junos
(oil; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyhydric, C8-C9 and derivs.; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Alcohols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyhydric, with six functional groups, phosphates of; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Phenols, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(polyphenols, nonpolymeric; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Alkali metals, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(salts with C2-C12 carboxylic acids; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Antiperspirants
Camellia japonica
Camellia sinensis
Deodorants
Deodorants (personal)
Ginkgo biloba
Ilex paraguariensis
Serenoa repens
(use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT Flavones
Tocopherols
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT 7664-93-9, Sulfuric acid, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(esters with C8-C18 fatty alcs.; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT 9016-17-5, Arylsulfatase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibitors; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT 7440-70-2, Calcium, biological studies
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(salts with C2-C12 carboxylic acids; use of arylsulfatase inhibitors in deodorants and antiperspirants)
IT 50-99-7D, D-Glucose, disodium coco derivs. 56-65-5, Adenosine triphosphate, biological studies 60-12-8, 2-Phenylethanol 60-81-1, Phlorizine 69-72-7, Salicylic acid, biological studies 77-92-9D, Citric acid, disodium cocopolyglucose derivs. 83-86-3, Phytic acid 87-69-4D, disodium cocopolyglucose derivs. 108-95-2D, Phenol, derivs. 112-92-5, Lorol C18 117-39-5D, Quercetin, glucosyl derivs. 122-99-6, Phenoxyethanol 123-76-2, Levulinic acid 139-12-8, **Aluminum** acetate 153-18-4, Rutin 331-39-5, Caffeic acid 480-35-3, Eriodictin 482-35-9, Isoquercetin 499-44-5, Hinokitiol 520-26-3, Hesperidin 520-27-4, Diosmin 529-44-2D, Myricetin, glucosyl derivs. 533-75-5D, derivs. 541-02-6, Cyclopentasiloxane, decamethyl- 557-34-6, Zinc

acetate 617-73-2, .alpha.-Hydroxycaprylic acid 1327-41-9, **Aluminum** chlorohydrate 1343-98-2D, Silicic acid, ester **2809-21-4**, Etidronic acid 2984-55-6, .alpha.-Hydroxylauric acid 4468-02-4, Zinc gluconate 5393-81-7, .alpha.-Hydroxydecanoic acid 6485-39-8, Manganese gluconate 7085-55-4, Troxerutin **7429-90-5D**, **Aluminum**, salts with C2-C12 carboxylic acids 7439-95-4D, Magnesium, salts with C2-C12 carboxylic acids 7439-96-5D, Manganese, salts with C2-C12 carboxylic acids 7440-66-6D, Zinc, salts with C2-C12 carboxylic acids 10236-47-2, Naringin 13241-33-3, Neohesperidin 13682-92-3 15454-75-8, Zinc L-pyroglutamate 18312-25-9, Magnesium, (D-gluconato-O1,O2)(D-glycero-D-gluco-heptonato-O1,O2)-, (T-4)- 18604-50-7, Eugenylglucoside 20283-92-5, Rosemary acid 20702-77-6, Neohesperidindihydrochalcone 21145-77-7, 7-Acetyl-1,1,3,4,4,6-hexamethyltetralin 23869-24-1, Monoxerutin 29923-31-7, Sodium lauroyl N-glutamate 35057-12-6 38517-23-6, Sodium stearoyl N-glutamate 52250-43-8 60007-93-4, D-Gluconic acid, **aluminum** salt (3:1) 71368-20-2, Sodium myristoyl N-glutamate 110225-00-8, Eutanol G16 119291-09-7 119291-12-2 128197-63-7 129499-78-1, L-Ascorbic acid, 2-O-.alpha.-D-glucopyranosyl- 130603-71-3, .alpha.-Glucosylrutin 477251-72-2 477251-73-3
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of arylsulfatase inhibitors in deodorants and antiperspirants)

IT **2809-21-4**, Etidronic acid **7429-90-5D**, **Aluminum**, salts with C2-C12 carboxylic acids
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(use of arylsulfatase inhibitors in deodorants and antiperspirants)

RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

L74 ANSWER 11 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2002:657911** HCAPLUS
DN 137:190370
ED Entered STN: 30 Aug 2002
TI Hair relaxer system and method therefor
IN Akhter, Humayoun; Syed, Ali N.
PA Avlon Industries, Inc., USA
SO PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002065982	A2	20020829	WO 2002-US2057	20020123
	WO 2002065982	A3	20030403		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2003049222	A1	20030313	US 2001-783904	20010215
	US 6602493	B2	20030805		
	EP 1368042	A2	20031210	EP 2002-713455	20020123

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
BR 2002007493 A 20040810 BR 2002-7493 20020123
PRAI US 2001-783904 A 20010215
WO 2002-US2057 W 20020123
CLASS
PATENT NO. CLASS PATENT FAMILY CLASSIFICATION CODES
WO 2002065982 ICM A61K
US 2003049222 ECLA A61K008/19; A61K008/26; A61K008/27; A61Q005/00; A61Q005/06

AB This invention describes a hair relaxer system and method that ameliorates and inhibits the adsorption and retention by alkaline, chemical-relaxed hair of exogenous multivalent metal ion present in the chemical relaxer, in the rinse water or both employed during the process of relaxing naturally curly hair with compns. containing strong chemical base. In a preferred relaxer method aspect, the alkaline, chemical relaxed hair was contacted with an aqueous metal ion chelating composition containing at least one multivalent metal ion chelating agent employing a disclosed delivery system adapted for practical salon use. In another preferred relaxer method embodiment, wipes impregnated with multivalent metal ion chelating composition were employed during the relaxer process.

ST hair relaxer chelator metal adsorption inhibitor

IT Chelating agents
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

IT Alkaline earth metals
Heavy metals
Transition metals, processes
RL: REM (Removal or disposal); PROC (Process)
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

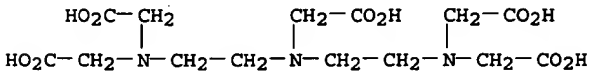
IT Hair preparations
(straighteners; hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

IT 60-00-4, EDTA, biological studies 64-02-8, Tetrasodium EDTA **67-43-6, Diethylenetriaminepentaacetic acid** 93-62-9 139-13-9, Nitrilotriacetic acid 139-33-3, Disodium EDTA 150-39-0, Hydroxyethylethylenediaminetriacetic acid **1170-02-1** 5835-28-9, N-Hydroxyethylglycine 7408-20-0, Iminodisuccinic acid 20846-91-7 25608-40-6, Polyaspartic acid 26063-13-8, Polyaspartic acid
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

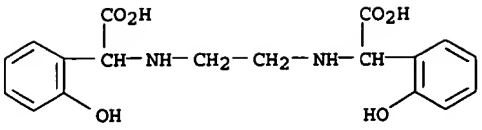
IT **7429-90-5, Aluminum**, processes 7439-89-6, Iron, processes 7439-92-1, Lead, processes 7439-95-4, Magnesium, processes 7439-96-5, Manganese, processes 7440-02-0, Nickel, processes 7440-24-6, Strontium, processes 7440-39-3, Barium, processes 7440-50-8, Copper, processes 7440-66-6, Zinc, processes 7440-70-2, Calcium, processes
RL: REM (Removal or disposal); PROC (Process)
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

IT **67-43-6, Diethylenetriaminepentaacetic acid** **1170-02-1**
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)

RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 1170-02-1 HCAPLUS
CN Benzeneacetic acid, .alpha.,.alpha.'-(1,2-ethanediyldiimino)bis[2-hydroxy- (9CI) (CA INDEX NAME)



IT **7429-90-5, Aluminum**, processes
RL: REM (Removal or disposal); PROC (Process)
(hair relaxer system comprising chelators for inhibition of metal ion retention in hair)
RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

L74 ANSWER 12 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2002:396433** HCAPLUS
DN 136:391080
ED Entered STN: 28 May 2002
TI Antibacterial deodorant compositions for sanitary protection
IN Ito, Naoaki; Honda, Hidenobu; Saito, Koichi; Urabe, Shinji; Uemura, Masayoshi
PA Toray Industries, Inc., Japan; Nagase Chemtx Corp.
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61L009-00
ICS A01N037-44; A61L009-01; A61L002-16
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 40
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002153545	A2	20020528	JP 2000-353252	20001120
PRAI JP 2000-353252		20001120		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2002153545	ICM	A61L009-00
	ICS	A01N037-44; A61L009-01; A61L002-16

AB The compns., useful for disposable diapers, etc., contain porous substances, aminopolycarboxylic acids, and metals. A polyester fabric was impregnated with an aqueous composition containing Al silicate, **diethylenetriaminepentaacetic acid**, and TiO2 and dry-cured. The fabric showed antibacterial activity against methicillin-susceptible and -resistant Staphylococcus aureus and 100% removal of NH3 and MeSH from air, and reduced histamine-induced itch in human skin.
ST antibacterial deodorant disposable diaper aminopolycarboxylate metal; **aluminum** silicate diethylenetriaminetetraacetate titania deodorant diaper; porous substance aminopolycarboxylate deodorant disposable diaper
IT Adsorbents
Antibacterial agents
Deodorants
Disposable diapers
Porous materials
Textiles
(antibacterial deodorant compns. containing porous substances, aminopolycarboxylic acids, and metals for sanitary protection)
IT Aluminosilicates, biological studies
Bentonite, biological studies
Metals, biological studies
Zeolites (synthetic), biological studies
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antibacterial deodorant compns. containing porous substances, aminopolycarboxylic acids, and metals for sanitary protection)
IT Polyester fibers, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fabrics; antibacterial deodorant compns. containing porous substances,

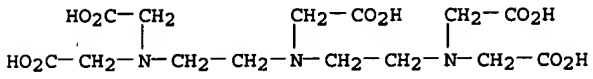
aminopolycarboxylic acids, and metals for sanitary protection)

IT Amino acids, biological studies
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polycarboxylic; antibacterial deodorant compns. containing porous substances, aminopolycarboxylic acids, and metals for sanitary protection)

IT 60-00-4, Ethylenediaminetetraacetic acid, biological studies
67-43-6, Diethylenetriaminepentaacetic acid
1314-13-2, Zinc oxide, biological studies 1335-30-4, **Aluminum** silicate **7429-90-5, Aluminum**, biological studies
7439-89-6, Iron, biological studies 7440-21-3, Silicon, biological studies 7440-22-4, Silver, biological studies 7440-32-6, Titanium, biological studies 7440-50-8, Copper, biological studies 7440-66-6, Zinc, biological studies **7440-67-7, Zirconium**, biological studies 7758-98-7, Copper sulfate, biological studies
13463-67-7, Titanium oxide, biological studies
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antibacterial deodorant compns. containing porous substances, aminopolycarboxylic acids, and metals for sanitary protection)

IT **67-43-6, Diethylenetriaminepentaacetic acid**
7429-90-5, Aluminum, biological studies
7440-67-7, Zirconium, biological studies
RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antibacterial deodorant compns. containing porous substances, aminopolycarboxylic acids, and metals for sanitary protection)

RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

RN 7440-67-7 HCAPLUS
CN Zirconium (8CI, 9CI) (CA INDEX NAME)

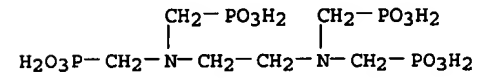
Zr

L74 ANSWER 13 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2002:181872** HCAPLUS
DN 137:158616
ED Entered STN: 14 Mar 2002
TI Characteristics of grey wastewater
AU Eriksson, Eva; Auffarth, Karina; Henze, Mogens; Ledin, Anna
CS Environment & Resources DTU, Technical University of Denmark, Kgs. Lyngby, DK-2800, Den.
SO Urban Water (2002), 4(1), 85-104
CODEN: URWAFE; ISSN: 1462-0758
PB Elsevier Science Ltd.
DT Journal
LA English
CC 60-5 (Waste Treatment and Disposal)
AB The composition of gray wastewater depends on sources and installations from where the water is drawn, e.g. kitchen, bathroom or laundry. The chemical compds. present originate from household chems., cooking, washing and the piping. In general gray wastewater contains lower levels of organic matter and nutrients compared to ordinary wastewater, since urine, feces and toilet paper are not included. The levels of heavy metals are, however, in the same concentration range. The information regarding the content of xenobiotic organic compds. (XOCs) is limited. In this study, 900 XOCs were identified as potentially present in gray wastewater by the use of tables

of contents of household chemical products.
ST gray wastewater compn
IT Detergents
(anionic; characteristics of gray wastewater)
IT Quaternary ammonium compounds, occurrence
RL: POL (Pollutant); OCCU (Occurrence)
(bis(hydrogenated tallow alkyl)dimethyl, chlorides; characteristics of gray wastewater)
IT Detergents
(cationic; characteristics of gray wastewater)
IT Alkalinity
Coliform bacteria
Detergents
Dyes
Electric conductivity
Emulsifying agents
Eubacteria
Giardia
Odor and Odorous substances
Preservatives
Softening agents
Solvents
Wastewater
(characteristics of gray wastewater)
IT Chlorides, occurrence
Cyanides (inorganic), occurrence
Enzymes, occurrence
Fatty acids, occurrence
Fluorides, occurrence
Heavy metals
Nitrates, occurrence
Nitrites
Organic compounds, occurrence
Phosphates, occurrence
Sulfates, occurrence
RL: POL (Pollutant); OCCU (Occurrence)
(characteristics of gray wastewater)
IT Fatty acids, occurrence
RL: POL (Pollutant); OCCU (Occurrence)
(esters, Me esters, .alpha.-sulfo-; characteristics of gray wastewater)
IT Sulfonic acids, occurrence
RL: POL (Pollutant); OCCU (Occurrence)
(salts of alkene; characteristics of gray wastewater)
IT 36574-66-0D, N-coco acyl derivs.
RL: POL (Pollutant); OCCU (Occurrence)
(betaines, coco amidopropyl, acyl derivs.; characteristics of gray wastewater)
IT 52-51-7, Bronopol 67-63-0, Isopropanol, occurrence 84-66-2, Diethylphthalate 84-74-2, Dibutylphthalate 90-04-0, o-Anisidine 91-94-1, 3,3'-Dichlorobenzidine 92-87-5, Benzidine 97-56-3, o-Aminoazotoluene 100-42-5, Styrene, occurrence 101-14-4, 4,4'-Methylenebis(2-chlorobenzenamine) 101-86-0, Hexyl cinnamic aldehyde 106-44-5, p-Cresol, occurrence 107-13-1, 2-Propene nitrile, occurrence 107-64-2 108-46-3, Benzene-1,3-diol, occurrence 108-95-2, Phenol, occurrence 111-42-2, Diethanolamine, occurrence 112-02-7, N-Hexadecyltrimethyl ammonium chloride 117-81-7, Bis(2-ethylhexyl)phthalate 120-82-1, 1,2,4-Trichlorobenzene 139-13-9, Nitrilotriacetic acid 141-43-5, Ethanolamine, occurrence 142-82-5, Heptane, occurrence 1222-05-5, HHCB 1330-20-7, Xylene, occurrence **1429-50-1** 3380-34-5, Triclosan 4080-31-3, Quaternium-15 7398-69-8, DADMAC **7429-90-5, Aluminum**, occurrence 7439-89-6, Iron, occurrence 7439-92-1, Lead, occurrence 7439-95-4, Magnesium, occurrence 7439-96-5, Manganese, occurrence 7439-97-6, Mercury, occurrence 7440-02-0, Nickel, occurrence 7440-09-7, Potassium, occurrence 7440-21-3, Silicon, occurrence 7440-22-4, Silver, occurrence 7440-23-5, Sodium, occurrence 7440-38-2, Arsenic, occurrence 7440-39-3, Barium, occurrence 7440-42-8, Boron, occurrence 7440-43-9, Cadmium, occurrence 7440-47-3, Chromium, occurrence 7440-48-4, Cobalt, occurrence 7440-50-8, Copper, occurrence 7440-66-6, Zinc, occurrence 7440-70-2, Calcium, occurrence 7704-34-9, Sulfur, occurrence 7782-49-2, Selenium, occurrence 14798-03-9, Ammonium, occurrence 21145-77-7, AHTN 26172-55-4, 5-Chloro-2-methyl-4-isothiazolin-3-one 28553-12-0, Diisononylphthalate 30007-47-7, Bronidox 39236-46-9, Imidazolidinyl urea
RL: POL (Pollutant); OCCU (Occurrence)
(characteristics of gray wastewater)

RE.CNT 54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Albrechtsen, H; Microbiological investigations of rain water and greywater reuse systems [in Danish] 1998
(2) Almeida, M; Urban Water 1999, V1, P49 HCAPLUS
(3) Anon; Risk assessment of chemicals: An introduction 1995
(4) Burrows, W; Water Science Technology 1991, V24(9), P81 HCAPLUS
(5) Christova-Boal, D; Desalination 1996, V106, P391 HCAPLUS
(6) Crook, J; Water Science Technology 1996, V33(10-11), P451 HCAPLUS
(7) Dixon, A; J CIWEM 1999, V13, P322
(8) Dixon, A; Urban Water 1999, V1, P293 HCAPLUS
(9) Feachem, R; Health aspects of excreta and sullage management: A state of the art review 1980, V3
(10) Feachem, R; Sanitation and disease. Health aspects of excreta and wastewater management 1983, P16
(11) Fittschen, I; Water Science Technology 1997, V35(9), P161 HCAPLUS
(12) Gerba, C; Water Research 1995, V31(1), P109 HCAPLUS
(13) Gregory, J; Desalination 1996, V106, P263 HCAPLUS
(14) Gunther, F; Ecological Engineering 2000, V15, P139
(15) Hagebro, C; Miljofremmende, organiske stoffer i kommunalt spildevand [In Danish] 1990, Miljoprojekt nr 127
(16) Hansen, A; Vandbesparende foranstaltninger [In Danish] 1994
(17) Hargelius, K; Vad innehaller avlopp fran hushall? Naring och metaller i urin och fekalier samt i disk-, tvatt-, bad- & duschvatten 1995
(18) Henze, M; Wastewater treatment biological and chemical processes (3rd ed) 2001
(19) Hypes, W; Manual of grey water treatment practice 1974, P79
(20) Jenkins, D; Water Environment Research 1998, V70(5), P893
(21) Jeppesen, B; Domestic greywater reuse: Preliminary evaluation 1993
(22) Jeppesen, B; Model guidelines for domestic greywater reuse for Australia 1996, Research report no 107
(23) Jepsen, S; Miljofremmende stoffer i husholdningsspildevand [In Danish] 1997, Miljoprojekt nr 357
(24) Karlstrom, U; Miljokriterier -- For tvattmedel [In Swedish] 1995
(25) Karpiscak, M; Water Research 1990, V26(6), P939
(26) Laak, R; Manual of grey water treatment practice 1974, P68
(27) Mara, D; Journal of Environmental Engineering 1999, V125(4), P334 HCAPLUS
(28) Mattson, J; Vatten [In Swedish] 1991, V47, P204
(29) National Center of Health Statistics; National Vital Statistics Reports (USA) 2000, V48(9)
(30) National Consumer Agency in Denmark; Publication "Vaskeog rengoringsmidler" [In Danish], http://www.fs.dk/skole/vaskeren2.htm 1999
(31) Naturvardsverket; Klororganiska foreningar fran disk- och blekmedel? En forsoksstudie [In Swedish] 1992, Report 4009
(32) Nolde, E; Urban Water 1999, V1, P275 HCAPLUS
(33) Okun, D; American Water Works Association Journal 1997, V89(11), P52 HCAPLUS
(34) Otterpohl, R; Water Science Technology 1999, V39(5), P153
(35) Paxeus, N; Water Research 1996, V30(5), P1115 HCAPLUS
(36) Paxeus, N; Water Science Technology 1992, V25(11), P249 HCAPLUS
(37) Paxeus, N; Water Science Technology 1996, V33(6), P9 HCAPLUS
(38) Pedersen, A; Harshampo og -balsam -- Fiskerne kan ikke lide skummet [In Danish] 1998, 1, HCAPLUS
(39) Puchta, R; Tenside Surface Detergents 1993, V30(3), P186 HCAPLUS
(40) Rose, J; Water Research 1991, V25(1), P37
(41) Santala, E; AWT98 -- Advanced Wastewater Treatment, Recycling and Reuse 1998, P319
(42) Sheikh, B; Water resources planning management and urban water resources 1993, P678
(43) Shin, H; Water Science Technology 1998, V38(6), P79 HCAPLUS
(44) Siegrist, H; Journal of the Environmental Engineering Division 1976, V102(EE3), P533
(45) Statistics Denmark; Population size in 1998 [In Danish], http://www.dst.dk/ 1999
(46) Statistics Finland; http://www.stat.fi/tk/tp/tasku/taskut_ru.html 2000
(47) Statistics Norway; http://www.ssb.no/emner/02/aktuell_befolkning/9912/ab9912.pdf 2000
(48) Statistics Sweden; Population size in 1998 [In Swedish], http://www.scb.se/ 1999
(49) Stenstrom, T; Reduktion av bakterier och virus vid avloppsvatteninfiltration i mark -- en kunskapssammanstallning [In Swedish] 1980, PM 1329
(50) Stenstrom, T; Sjukdomsframkallande mikroorganismer i avloppssystem -- riskvardering av traditionella och alternativa avloppslosningar [In Swedish] 1996, Report no 4683
(51) Surendran, S; J CIWEM 1998, V12, P406 HCAPLUS

(52) Swedish Society for Nature Conservation; http://www.snf.se/pdf/bmv/rap-bmv-surfactants 2000.pdf 2000
(53) Wilkie, P; Water Science Technology 1996, V34(3-4), P63 HCAPLUS
(54) World Health Organization; Technical Report Series 1989, V778
IT **1429-50-1 7429-90-5, Aluminum**, occurrence
RL: POL (Pollutant); OCCU (Occurrence)
(characteristics of gray wastewater)
RN 1429-50-1 HCAPLUS
CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI)
(CA INDEX NAME)



RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

L74 ANSWER 14 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2001:661220** HCAPLUS
DN 135:215751
ED Entered STN: 10 Sep 2001
TI Hair relaxer compositions containing complexing agent activators
IN Van Nguyen, Nghi; Cannell, David W.
PA L'oreal, Fr.
SO PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K007-06
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001064171	A2	20010907	WO 2001-US6338	20010228
WO 2001064171	A3	20020110		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6562327	B1	20030513	US 2000-516942	20000301
CA 2401009	AA	20010907	CA 2001-2401009	20010228
EP 1261312	A2	20021204	EP 2001-916273	20010228
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2001008907	A	20021224	BR 2001-8907	20010228
JP 2003524658	T2	20030819	JP 2001-563069	20010228
ZA 2002006840	A	20030404	ZA 2002-6840	20020827
PRAI US 2000-516942	A	20000301		
WO 2001-US6338	W	20010228		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001064171	ICM	A61K007-06
US 6562327	ECLA	A45D007/04; A61K007/09; A61K007/09K

AB The present invention provides a composition for lanthionizing keratin fibers comprising at least 1 multivalent metal hydroxide and at least 1 complexing agent effective for dissociating one multivalent metal hydroxide in sufficient quantity to effect lanthionization of the keratin fibers. In one embodiment, the complex that is formed between the complexing agent and a metal ion from the multivalent metal hydroxide is soluble in water.thus, a gel was prepared from mineral oil 15.0, petrolatum 5.5, Sr(OH)2 octahydrate 18.6, propylene glycol 3.0, acrylates/Ceteth-20 itaconate copolymer 7.0, and water 50.9%. The relaxer gel (6 g) was mixed

with a solution of 1.83 g tetrasodium EDTA in 2 g water and the mixture was applied to kinky hair. The relaxing efficiency of the strontium/EDTA hair relaxer was found to be in excess of 85%.

ST hair relaxer complexing agent; hydroxide EDTA hair relaxer

IT Ion exchangers
(hair relaxer compns. containing complexing agent activators)

IT Amino acids, biological studies
Crown ethers
Hydroxides (inorganic)
Silicates, biological studies
Sulfonic acids, biological studies
Zeolite-group minerals
Zeolites (synthetic), biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair relaxer compns. containing complexing agent activators)

IT Carboxylic acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hydroxy; hair relaxer compns. containing complexing agent activators)

IT Hair preparations
(straighteners; hair relaxer compns. containing complexing agent activators)

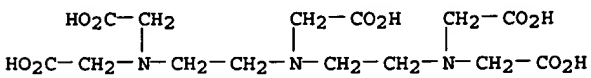
IT 60-00-4, EDTA, biological studies **67-43-6**, **Diethylenetriaminepentaacetic acid** 77-92-9, Citric acid, biological studies 87-69-4, Tartaric acid, biological studies 93-62-9, N-(2-Hydroxyethyliminodiacetic acid 139-13-9 139-89-9, Trisodium N-(hydroxyethyl)ethylenediaminetriacetate **140-01-2**, Pentasodium diethylenetriaminepentaacetate 150-39-0, N-(Hydroxyethyl)ethylenediaminetriacetic acid 1305-62-0, Calcium hydroxide (Ca(OH)2), biological studies 1309-42-8, Magnesium hydroxide 1318-10-1, Analcime 1318-50-9, Epistilbite 1318-63-4, Heulandite 1318-80-5, Laumontite 1318-83-8, Levynite 1318-95-2, Natrolite 1319-20-6, Scolecite 1327-36-2, Aluminosilicate 1763-07-1, Guanidine phosphate 2235-43-0 5064-31-3, Trisodium Nitrilotriacetate 6419-19-8, Aminotrimethylenephosphonic acid 6834-92-0, Sodium metasilicate 7408-20-0, Iminodisuccinic acid 7601-54-9, Trisodium phosphate 7778-53-2, Tripotassium phosphate 10006-28-7, Silicic acid (H_2SiO_3), dipotassium salt 12043-66-2, Mesolite 12173-28-3, Faujasite 12173-98-7, Mordenite 12174-18-4, Phillipsite 12197-41-0, Brewsterite 12251-23-9, Gismondine 12251-32-0, Chabazite 12251-35-3, Gmelinite 12251-39-7, Harmotome 12252-36-7, Edingtonite 12399-54-1, Thomsonite 12446-28-5, Stilbite 17194-00-2, Barium hydroxide ($Ba(OH)_2$) 18480-07-4, Strontium hydroxide ($Sr(OH)_2$) 18933-05-6, Manganese hydroxide ($Mn(OH)_2$) 20427-58-1, Zinc hydroxide ($Zn(OH)_2$) 20427-59-2, Copper hydroxide ($Cu(OH)_2$) 21041-93-0, Cobalt hydroxide ($Co(OH)_2$) 21645-51-2, **Aluminum** hydroxide ($Al(OH)_3$), biological studies 120070-48-6 126853-99-4, Molybdenum hydroxide 148124-41-8 148124-42-9
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair relaxer compns. containing complexing agent activators)

IT 64-02-8, Tetrasodium EDTA 1311-10-0, Strontium hydroxide octahydrate
RL: BUU (Biological use, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(hair relaxer compns. containing complexing agent activators)

IT **67-43-6**, **Diethylenetriaminepentaacetic acid**
140-01-2, Pentasodium diethylenetriaminepentaacetate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(hair relaxer compns. containing complexing agent activators)

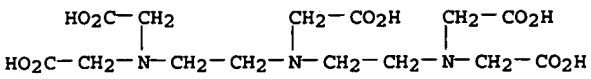
RN 67-43-6 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 140-01-2 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt (8CI, 9CI) (CA INDEX NAME)



●5 Na

L74 ANSWER 15 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2001:300511** HCAPLUS
DN 134:315855
ED Entered STN: 27 Apr 2001
TI Antimicrobial compositions comprising pyroglutamic acid and metal salts
IN Biedermann, Kimberly Ann; Kronholm, Kurt Glen; Beerse, Peter William; Morgan, Jeffrey Michael; Mobley, Michael Joseph
PA The Procter & Gamble Company, USA
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K031-195
ICS A01N037-46
CC 62-1 (Essential Oils and Cosmetics)
Section cross-reference(s): 10, 46, 63
FAN.CNT 26

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001028552	A2	20010426	WO 2000-US28922	20001019
	WO 2001028552	A3	20010614		
	W: AE, AG, AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EE, EE, ES, FI, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2382985	AA	20010426	CA 2000-2382985	20001019
	BR 2000014778	A	20020716	BR 2000-14778	20001019
	EP 1225887	A2	20020731	EP 2000-970995	20001019
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
	TR 200201048	T2	20020821	TR 2002-200201048	20001019
	JP 2003512323	T2	20030402	JP 2001-531382	20001019
	ZA 2002002475	A	20030627	ZA 2002-2475	20020327
PRAI	US 1999-421131	A	19991019		
	WO 2000-US28922	W	20001019		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 2001028552	ICM	A61K031-195
	ICS	A01N037-46

AB The present invention relates to antimicrobial compns. which provide enhanced immediate as well as residual anti-viral and antibacterial efficacy. The antimicrobial compns. of the present invention provide previously unseen residual effectiveness against Gram neg. bacteria, Gram pos. bacteria, and viruses, fungi, and improved immediate germ reduction upon use. These compns. comprise: (a) a safe and effective amount of pyroglutamic acid; (b) a safe and effective amount of a metal salt; and (c) a dermatol. acceptable carrier for the acid and salt, wherein said composition has a pH of 1-7. The invention further relates to methods of use for the present compns. as well as antimicrobial products which incorporate the compns. For example, a foaming facial, hand or body wash suitable for washing the skin is prepared from the following ingredients using conventional mixing techniques: (A) sodium myristoyl sarcosinate 1.35%, disodium lauroamphoacetate 0.35%, sodium trideceth sulfate 0.35%, lauroamphoacetate 1.85%, PEG 120 Me glucose dioleate 2.7%, glycerin 2%; (B) dimethicone copolyol 1.3%, PEG 6 caprylic/capric glycerides 1%, phenoxyisopropanol 0.72%, Polyquaternium-10 0.5%, pyroglutamic acid 2.0%, Cuivridone 0.5%, CuCl2 0.1%, disodium EDTA 0.1%, glycol distearate 0.6%, sodium laureth sulfate 0.6%, cocamide MEA 0.12%, Laureth-10 0.12%, PEG 150 pentaerythritol tetrastearate 0.9%, fragrance 0.2%; and (C) water up to

100%, resp.
ST pyroglutamate salt topical antimicrobial cosmetic cleaning; disinfectant topical pyroglutamate salt cosmetic cleaning
IT Amine oxides
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C12-16-alkyldimethyl; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C16-18, ethoxylated, ceteareth; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Glycerides, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(C8-10, ethoxylated; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Sulfonic acids, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkene, C14-16-; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylbenzyldimethyl, chlorides; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Shampoos
(antidandruff; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Antibacterial agents
Antimicrobial agents
Antiviral agents
Common cold
Disinfectants
Fungicides
Gram-negative bacteria
Gram-positive bacteria (Firmicutes)
Mouthwashes
Rhinovirus
Scouring agents
Surfactants
(antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Alcohols, biological studies
Amine oxides
Betaines
Carboxylic acids, biological studies
Polyoxyalkylenes, biological studies
Salts, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Soaps
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Bath preparations
(body washes; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(clove; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Amides, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(coco, N-(hydroxyethyl), cocamide MEA; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Respiratory tract
(disease; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Detergents
(dishwashing; antimicrobial compns. comprising pyroglutamic acid and metal salts)

IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(eucalyptus; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Waxes
RL: NUU (Other use, unclassified); USES (Uses)
(floor; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Drugs
(gastrointestinal; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Bath preparations
Cosmetics
(gels; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Cosmetics
(hand sanitizers; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Cosmetics
(lotions; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Cosmetics
(moisturizers; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Drug delivery systems
(nasal sprays; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Polysiloxanes, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polyether-; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Polyethers, biological studies
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(siloxane-; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Drug delivery systems
(solns., topical; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Essential oils
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(thyme, Thymus vulgaris, thyme oil; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Paper
(tissue, facial; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT Medical goods
(wipes; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT 15454-74-7, Cuivridone
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Cuivridone; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT 556-67-2, DC 344
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(DC 344; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT 128285-85-8, Dow Corning 580
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Dow Corning 580; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT 2216-51-5, Levomenthol
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Levomenthol; antimicrobial compns. comprising pyroglutamic acid and metal salts)
IT 158050-37-4, Dow Corning Q 2-1401
RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(Q 2-1401; antimicrobial compns. comprising pyroglutamic acid and metal

salts)

IT 50-70-4, Sorbitol, biological studies 57-11-4, Stearic acid, biological studies 57-13-6, Urea, biological studies 57-55-6, Propylene Glycol, biological studies 58-95-7, Tocopheryl Acetate 64-02-8, Tetrasodium EDTA 64-17-5, Ethanol, biological studies **67-43-6**, **DTPA** 67-63-0, Isopropanol, biological studies 69-72-7, Salicylic Acid, biological studies 79-10-7D, Acrylic acid, esters, polymers 81-13-0, Panthenol 88-04-0, p-Chloro-m-xylenol 90-43-7, o-Phenylphenol 98-79-3, Pyroglutamic acid 98-92-0, Niacinamide 102-71-6, Triethanolamine, biological studies 110-63-4, Butylene Glycol, biological studies 112-92-5, Stearyl Alcohol 118-55-8, Phenylsalicylate 122-99-6, Phenoxyethanol 139-44-6, Trihydroxystearin 142-91-6, Isopropyl palmitate 532-32-1, Sodium Benzoate 540-10-3, Cetyl palmitate 676-46-0, Sodium malate 770-35-4, Phenoxyisopropanol 994-36-5, Sodium Citrate 1191-50-0, Sodium myristyl sulfate 2235-54-3, Ammonium lauryl sulfate **2809-21-4**, HEDP 3380-34-5, Triclosan 5466-77-3, Parsol MCX 7149-65-7, L-Pyroglutamic acid ethyl ester 7439-89-6D, Iron, salts, biological studies 7440-02-0D, Nickel, salts, biological studies 7440-22-4D, Silver, salts, biological studies 7447-39-4, Copper(II) chloride, biological studies 7631-86-9, Silica, biological studies 7646-85-7, Zinc chloride (ZnCl2), biological studies 7647-14-5, Sodium chloride, biological studies 7664-93-9D, Sulfuric acid, alkyl esters, biological studies 7705-08-0, Iron(III) chloride, biological studies 7722-84-1, Hydrogen peroxide, biological studies 7758-98-7, Copper sulfate, biological studies 7761-88-8, Silver nitrate, biological studies 7772-99-8, Tin chloride (SnCl2), biological studies 7786-81-4, Nickel(II) sulfate 9002-92-0, Laureth 10 9003-39-8, Luviskol K 17 9004-53-9, Dextrin 9004-64-2, Hydroxypropyl cellulose 9006-65-9, Dimethicone 9087-61-0, **Aluminum** Starch Octenyl Succinate 10028-22-5, Iron(III) sulfate 11138-66-2, Xanthan gum 13463-41-7, Pyrithione zinc 14350-97-1 15214-89-8 15435-29-7, Bromochlorophene **15827-60-8**, DETPMP 18641-57-1, Syncrowax HRC 24937-16-4, Nylon-12 25038-74-8 25265-71-8, Dipropylene glycol 25301-02-4, Tyloxapol 25322-68-3, Polyethylene glycol 26027-38-3, Nonoxynol 14 30364-51-3, Sodium myristoyl sarcosinate 32612-48-9, Ammonium Laureth-3 Sulfate 36653-82-4, Cetyl Alcohol 39421-75-5, Jaguar HP 120 42233-14-7, Arachidyl Behenate 54116-08-4, Sodium trideceth sulfate 60908-77-2, Isohexadecane 67167-59-3, Polyethylene glycol stearate 81859-24-7, Polyquaternium 10 84861-79-0, Palmityl potassium phosphate 89382-86-5, Bentone EW 104365-77-7 125018-88-4, Glydant Plus 130249-48-8, Polyethylene glycol pentaerythritol tetrastearate 134499-37-9, Carbopol 954 138789-85-2, Pemulen TR1 156028-14-7, Sodium lauroamphoacetate 286384-03-0, Dow Corning QZ 3225C 335383-60-3, Aristoflex AVC

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antimicrobial compns. comprising pyroglutamic acid and metal salts)

IT 9003-05-8D, crosslinked 148093-12-3, Sepigel 305

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ntimicrobial compns. comprising pyroglutamic acid and metal salts)

IT 13463-67-7, Titanium dioxide, biological studies

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(silane-treated; antimicrobial compns. comprising pyroglutamic acid and metal salts)

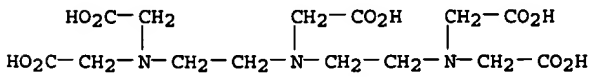
IT **67-43-6**, **DTPA 2809-21-4**, HEDP **15827-60-8**, DETPMP

RL: BUU (Biological use, unclassified); NUU (Other use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antimicrobial compns. comprising pyroglutamic acid and metal salts)

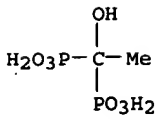
RN 67-43-6 HCAPLUS

CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

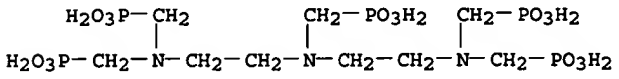


RN 2809-21-4 HCAPLUS

CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 15827-60-8 HCAPLUS
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



L74 ANSWER 16 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2000:686242** HCAPLUS
DN 133:256574
ED Entered STN: 29 Sep 2000
TI Cosmetic compositions having an aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid
IN Chevalier, Veronique; Quest, Melanie
PA L'oreal, Fr.
SO Eur. Pat. Appl., 9 pp.
CODEN: EPXXDW
DT Patent
LA French
IC ICM A61K007-06
ICS A61K007-48
CC 62-4 (Essential Oils and Cosmetics)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1038515	A1	20000927	EP 2000-400495	20000223
	EP 1038515	B1	20040714		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	FR 2790953	A1	20000922	FR 1999-3476	19990319
	FR 2790953	B1	20020809		
	AT 270869	E	20040715	AT 2000-400495	20000223
	US 6337077	B1	20020108	US 2000-522106	20000309
	BR 2000000707	A	20010502	BR 2000-707	20000313
	JP 2000281521	A2	20001010	JP 2000-74821	20000316
	CN 1267507	A	20000927	CN 2000-104337	20000317
	US 2003004197	A1	20030102	US 2001-2959	20011205
PRAI	FR 1999-3476	A	19990319		
	US 2000-522106	A1	20000309		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 1038515	ICM	A61K007-06
	ICS	A61K007-48
EP 1038515	ECLA	A61K007/06C14; A61K007/48C14
FR 2790953	ECLA	A61K007/06C14; A61K007/48C14
US 6337077	ECLA	A61K007/06C14; A61K007/48C14
US 2003004197	ECLA	A61K007/06C14; A61K007/48C14

AB Cosmetic compns. having an aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid (I), a sequestering agent, and a neutralizing agent to make the pH of the composition to 5-8 are disclosed. A cosmetic emulsion contained cyclohexasiloxane 10, apricot oil 6, glycerin 5, aluminum starch crosslinked by octenylsuccinate 3, stearyl alc. and ceteareth-20 2, methylglucose sesquistearate 2, triethanolamine 1.1, I 1, preservative 0.6, xanthan gum 0.25, disodium EDTA 0.05, and water 69%.
ST cosmetic oxothiazolidine carboxylic acid sequestering agent
IT Surfactants
(amphoteric, disodium cocoamphodiacetate; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)
IT Cosmetics
(antiaging; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)
IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES

(Uses)
(basic; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Alopecia
Sequestering agents
Sunscreens
Thickening agents
pH
(cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Alkali metal hydroxides
Vitamins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Skin, disease
(depigmentation, agents for; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Cosmetics
(emulsions; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Hair preparations
(growth stimulants; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Bases, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(organic; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT Cosmetics
(skin-lightening; cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

IT 50-81-7, Ascorbic acid, biological studies 56-87-1, LYSINE, biological studies 60-00-4, Edta, biological studies **67-43-6**, **67-43-6D**, salts 68-04-2, Trisodium citrate 74-79-3, ARGININE, biological studies 102-71-6, biological studies 111-42-2, biological studies 139-33-3, Disodium EDTA 141-43-5, biological studies 1310-58-3, Potassiumhydroxide, biological studies 1310-73-2, Sodium hydroxide, biological studies **1429-50-1**, Ethylenediamine tetramethylene phosphonic acid 2001-94-7, Dipotassium edta **2809-21-4**, Etidronic acid **2809-21-4D**, Etidronic acid, salts **3794-83-0**, Tetrasodium Etidronate 5064-31-3 6284-40-8, N-Methylglucamine 7651-99-2, Pentasodium ethylenediamine tetramethylene phosphonate 7664-41-7, Ammonia, biological studies 19771-63-2, L-2-Oxothiazolidine-4-carboxylic acid 31138-65-5 52722-52-8 68155-78-2, Heptasodium Diethylenetriamine pentamethylene phosphonate 296269-32-4, Pentasodium Diethylenetriamine tetramethylene phosphonate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD

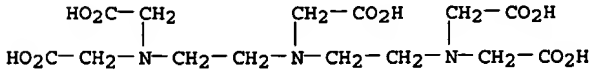
RE

(1) Free Radical Sciences; EP 0650725 A 1995 HCAPLUS
(2) Free Radical Sciences; EP 0656201 A 1995 HCAPLUS
(3) L 'Oreal; EP 0780120 A 1997 HCAPLUS
(4) L 'Oreal; FR 2773323 A 1999 HCAPLUS

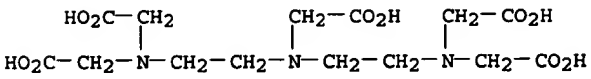
IT **67-43-6** **67-43-6D**, salts **1429-50-1**, Ethylenediamine tetramethylene phosphonic acid **2809-21-4**, Etidronic acid **2809-21-4D**, Etidronic acid, salts **3794-83-0**, Tetrasodium Etidronate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(cosmetic compns. having aqueous phase containing L-2-oxothiazolidine-4-carboxylic acid)

RN 67-43-6 HCAPLUS

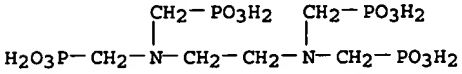
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



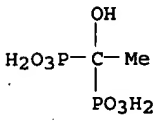
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



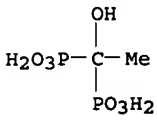
RN 1429-50-1 HCAPLUS
CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



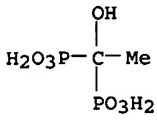
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



RN 3794-83-0 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis-, tetrasodium salt (9CI) (CA INDEX NAME)



4 Na

L74 ANSWER 17 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2000:316928** HCAPLUS
DN 132:339056
ED Entered STN: 16 May 2000
TI Skin preparations for UV-induced rough skin and skin pigmentation
IN Kondo, Chiharu; Takayama, Akemi; Senoo, Masami
PA Kosei Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-48
ICS A61K007-00; A61K007-42; A61P017-00
CC 62-4 (Essential Oils and Cosmetics)
Section cross-reference(s): 63
FAN.CNT 1
PATENT NO. KIND DATE APPLICATION NO. DATE

PI	JP 2000136123	A2	20000516	JP 1998-307680	19981028
PRAI	JP 1998-307680		19981028		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000136123	ICM	A61K007-48
	ICS	A61K007-00; A61K007-42; A61P017-00

AB Skin prepns. for UV-induced rough skin and skin pigmentation comprise (A) metal chelators, (B) UV protectants and (C) active oxygen scavengers and/or antioxidants. An ointment contained stearic acid 18, cetanol 4, triethanolamine 2, di-Na EDTA 0.02, homomenthyl salicylate 1, .alpha.-glycosylretin 0.001 and purified water to 100 %.

ST ointment chelator UV protectant antioxidant; UV rough skin cosmetic; skin pigmentation cosmetic

IT Scavengers
(active oxygen; skin prepns. for UV-induced rough skin and skin pigmentation)

IT Skin, disease
(pigmentation; skin prepns. for UV-induced rough skin and skin pigmentation)

IT Skin, disease
(rough skin; skin prepns. for UV-induced rough skin and skin pigmentation)

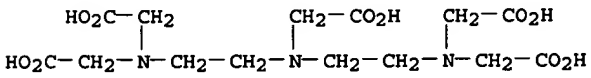
IT Antioxidants
Chelating agents
Cosmetics
UV stabilizers
(skin prepns. for UV-induced rough skin and skin pigmentation)

IT Ferritins
Lactoferrins
Transferrins
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(skin prepns. for UV-induced rough skin and skin pigmentation)

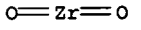
IT Polyphosphoric acids
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(sodium salts; skin prepns. for UV-induced rough skin and skin pigmentation)

IT 50-81-7, Vitamin c, biological studies 57-88-5, Cholesterol, biological studies 60-00-4, Edta, biological studies 66-71-7, o-Phenanthroline **67-43-6, Diethylenetriaminepentaacetic acid** 69-65-8, Mannitol 69-72-7, Salicylic acid, biological studies 70-51-9, Desferrioxamine 71-00-1, Histidine, biological studies 73-22-3, Tryptophan, biological studies 77-92-9, Citric acid, biological studies 83-86-3, Phytic acid 87-28-5, Ethylene glycol salicylate 87-66-1, Pyrogallol 87-69-4, Tartaric acid, biological studies 94-25-7, Butyl p-Aminobenzoate 117-39-5, Quercetin 118-55-8, Phenyl salicylate 118-56-9, Homomenthyl salicylate 118-58-1, Benzyl salicylate 118-60-5, 2-Ethylhexyl salicylate 118-71-8, Maltol 119-36-8, Methyl salicylate 128-37-0, biological studies 131-53-3, 2,2'-Dihydroxy-4-methoxybenzophenone 131-54-4, 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone 131-55-5, 2,2',4,4'-Tetrahydroxybenzophenone 131-56-6, 2,4-Dihydroxybenzophenone 131-57-7, 2-Hydroxy-4-methoxybenzophenone 134-09-8, Menthyl-o-aminobenzoate 136-44-7, Glyceryl p-Aminobenzoate 149-91-7, Gallic acid, biological studies 150-13-0, p-Aminobenzoic acid 153-18-4, Rutin 154-23-4, Catechin, biological studies 331-39-5, Caffeic acid 472-61-7 526-95-4, Gluconic acid 578-36-9, Potassium salicylate 635-65-4, Bilirubin, biological studies 1306-38-3, Cerium oxide, biological studies 1314-13-2, Zinc oxide, biological studies 1314-23-4, Zirconia, biological studies 1406-16-2, Vitamin d 1406-18-4, Vitamin e 1843-05-6, 2-Hydroxy-4-n-octoxybenzophenone 2050-08-0, Amyl salicylate 2174-16-5, Salicylic acid triethanolamine salt 2440-22-4, 2-[2-Hydroxy-5-methylphenyl]benzotriazole 4065-45-6 5232-99-5, Ethyl-2-cyano-3,3-diphenylacrylate 5466-76-2, Isopropyl P-methoxycinnamate 5466-77-3, 2-Ethylhexyl P-methoxycinnamate 6197-30-4, 2-Ethylhexyl-2-cyano-3,3-diphenylacrylate 6327-79-3, 4-Methoxydibenzoylmethane 6628-37-1 7235-40-7, .beta.-Carotene 7420-86-2, 2-Phenyl-5-methylbenzoxazole 7785-84-4, Sodium metaphosphate 9054-89-1, Superoxide dismutase 11103-57-4, Vitamin a 12001-76-2, Vitamin b 13110-37-7, Amyl p-Aminobenzoate 13463-67-7, Titania, biological studies 25013-16-5, Butylhydroxyanisole 27503-81-7 27538-35-8, Ethyl urocanate 36861-47-9, 3-[4-Methylbenzylidene]camphor 55940-73-3, Dipropylene glycol salicylate 63250-25-9, 4-Isopropyldibenzoylmethane 70356-09-1, 4-tert-Butyl-4'-

methoxydibenzoylmethane 76840-16-9 96436-87-2 120388-98-9
126045-00-9, Methyl diisopropylcinnamate 132944-34-4 178949-76-3,
P-Methoxyhydrocinnamic acid diethanolamine salt
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(skin prepns. for UV-induced rough skin and skin pigmentation)
IT **67-43-6, Diethylenetriaminepentaacetic acid**
1314-23-4, Zirconia, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES
(Uses)
(skin prepns. for UV-induced rough skin and skin pigmentation)
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA
INDEX NAME)



RN 1314-23-4 HCAPLUS
CN Zirconium oxide (ZrO2) (8CI, 9CI) (CA INDEX NAME)



L74 ANSWER 18 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2000:120809** HCAPLUS
DN 132:171121
ED Entered STN: 22 Feb 2000
TI Method for discoloration prevention of pigments in pharmaceutical and
cosmetic compositions
IN Goto, Hajime; Taguchi, Shinya; Iida, Norio
PA Lion Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-00
ICS A61K007-00; A61K047-06
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): **62**
FAN.CNT 1

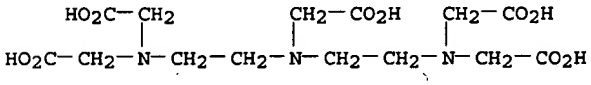
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000053522	A2	20000222	JP 1998-226863	19980811
PRAI JP 1998-226863		19980811		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 2000053522	ICM	A61K007-00
	ICS	A61K007-00; A61K047-06

AB The invention relates to a method for preventing discoloration of pigments
in pharmaceutical and cosmetic compns., wherein the discoloration is
prevented by the use of an anion-supplying agent having a chelate
stability constant with Cu, Fe, or Ni ion (Log KMA) .gtoreq. 7 at pH = 3-10
in the compns. An indomethacin ointment (pH = 6.5) containing yellow No.4
0.0001, EDTA.cntdot.4Na (log KMA = 18.79) 0.02 %, and other ingredients
was prepared
ST pharmaceutical cosmetic discoloration prevention anion supplier
IT Discoloration prevention agents
Pigments, biological
Pigments, nonbiological
(discoloration prevention agent containing pigments and anion-supplying
agents for pharmaceuticals or cosmetics)
IT Carotenes, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
(discoloration prevention agent containing pigments and anion-supplying
agents for pharmaceuticals or cosmetics)
IT Cosmetics
Drug delivery systems
(lotions; discoloration prevention agent containing pigments and

anion-supplying agents for pharmaceuticals or cosmetics)
IT Drug delivery systems
(ointments; discoloration prevention agent containing pigments and anion-supplying agents for pharmaceuticals or cosmetics)
IT Blueberry
Curcuma
Perilla
Persimmon (Diospyros)
Shrimp
(pigment; discoloration prevention agent containing pigments and anion-supplying agents for pharmaceuticals or cosmetics)
IT Medical goods
(poultices; discoloration prevention agent containing pigments and anion-supplying agents for pharmaceuticals or cosmetics)
IT 52-90-4, Cysteine, biological studies 56-40-6, Glycine, biological studies 56-86-0, Glutamic acid, biological studies 60-00-4, EDTA, biological studies 64-02-8, EDTA tetrasodium salt 69-72-7, Salicylic acid, biological studies 97-05-2, Sulfosalicylic acid 139-33-3, Disodium ethylenediaminetetraacetate 149-45-1 596-03-2, Japan orange 201 928-72-3, Disodium iminodiacetate **1420-46-8**, **DTPA** disodium salt 1436-59-5, cis-1,2-Diaminocyclohexane 1934-21-0, Japan yellow 4 2399-85-1, Tripotassium nitrilotriacetate 2611-82-7, Japan red 102 2783-94-0, Japan yellow 5 3520-42-1, Japan red 106 3844-45-9, Japan blue 1 5141-20-8 5657-17-0, EDDA 12225-21-7, Japan yellow 4 **aluminum** lake 12227-78-0, Japan red 3 **aluminum** lake 13311-39-2, EDTP 15739-09-0 16521-38-3, Japan blue 2 **aluminum** lake 25956-17-6
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(discoloration prevention agent containing pigments and anion-supplying agents for pharmaceuticals or cosmetics)
IT **1420-46-8**, **DTPA** disodium salt
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(discoloration prevention agent containing pigments and anion-supplying agents for pharmaceuticals or cosmetics)
RN 1420-46-8 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, disodium salt (8CI, 9CI) (CA INDEX NAME)



●2 Na

L74 ANSWER 19 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1999:535752** HCAPLUS
DN 131:248319
ED Entered STN: 27 Aug 1999
TI Anion-exchange separation and determination of bisphosphonates and related analytes by post-column indirect fluorescence detection
AU Lovdahl, Michael J.; Pietrzyk, Donald J.
CS Parke-Davis Pharmaceuticals, Ann Arbor, MI, 48105, USA
SO Journal of Chromatography, A (1999), 850(1 + 2), 143-152
CODEN: JCRAEY; ISSN: 0021-9673
PB Elsevier Science B.V.
DT Journal
LA English
CC 64-3 (Pharmaceutical Analysis)
Section cross-reference(s): **62**
AB Bisphosphonic acids and their salts can be detected after their liquid chromatog. separation by post-column indirect fluorescence detection (IFD). After separation the analyte is combined with the highly fluorescent Al3+-morin (2',3,4',5,7-pentahydroxyflavone) solution and fluorescence decreases because of the formation of the nonfluorescent A3+-bisphosphonate complex. The decrease in fluorescence is proportional to the amount of bisphosphonate present. Separation of the multivalent anionic bisphosphonate analytes from other anions and sample matrix is achieved on a strong base anion-exchange column with a strong, basic eluent. The post-column reaction variables, which influence IFD, are identified and optimized for the

detection of the bisphosphonates after separation on the anion exchanger. The method is selective, since only a few anions will undergo a reaction with the Al3+-morin solution, and sensitive, detection limit for difluoromethylene bisphosphonate, F2MDP, is 4 ng for S/N=3. The separation-IFD method can be applied to the determination of bisphosphonates, such as F2MDP, ethane-1-hydroxy-1,1-bisphosphonic acid, dichloromethylene bisphosphonic acid, 4-amino-1-hydroxybutane-1,1-bisphosphonic acid, in biol. samples. The separation-IFD method is also applicable to the detection of inositol phosphate anions.

ST bisphosphonate detn anion exchange chromatog fluorometry

IT Fluorometry
Ion exchange liquid chromatography
(fluorometric detection of bisphosphonates using Al3+-morin post-column complexation agent after anion-exchange separation)

IT **2809-21-4** 10596-23-3 10596-32-4 66376-36-1 68247-19-8, Inositol phosphate
RL: ANT (Analyte); ANST (Analytical study)
(fluorometric detection of bisphosphonates using Al3+-morin post-column complexation agent after anion-exchange separation)

IT 480-16-0D, Morin, **aluminum** complexes **7429-90-5D**, **Aluminum**, morin complexes, uses
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(fluorometric detection of bisphosphonates using Al3+-morin post-column complexation agent after anion-exchange separation)

RE.CNT 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD

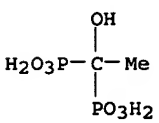
RE

(1) Benedict, J; Diphosphonates and Bone 1982, P1 HCAPLUS
(2) Bisaz, S; Clin Chim Acta 1975, V65, P299 HCAPLUS
(3) Burton, D; J Fluorine Chem 1983, V23, P339 HCAPLUS
(4) Chester, T; J Chromatogr 1981, V225, P17 HCAPLUS
(5) Daley-Yates, P; J Chromatogr 1989, V490, P329 HCAPLUS
(6) Edelmuth, S; Thesis University of Iowa 1986
(7) Fleisch, H; Clin Orth Rel Res 1987, V217, P72
(8) Fleisch, H; Science 1968, V165, P1262
(9) Flesch, G; J Chromatogr 1989, V489, P446 HCAPLUS
(10) Flesch, G; J Chromatogr 1991, V568, P261 HCAPLUS
(11) Fonong, T; Anal Chem 1983, V55, P1645
(12) Forbes, K; Advances in Ion Chromatography 1989, V1, P487
(13) Ismail, Z; J Chromatogr 1987, V404, P372 HCAPLUS
(14) Kline, W; J Chromatogr 1990, V534, P139 HCAPLUS
(15) Kwong, E; J Chromatogr Sci 1990, V28, P563 HCAPLUS
(16) Lands, D; Mikrochim Acta 1966, V6, P1013
(17) Liggett, S; Biochem Med 1973, V7, P68 HCAPLUS
(18) Lovdahl, M; J Chromatogr 1992, V602, P197 HCAPLUS
(19) Lowik, C; Bone Mineral Res 1988, V3, P185 MEDLINE
(20) Meek, S; Anal Chem 1988, V60, P1397 HCAPLUS
(21) Pietrzyk, D; Advances in Ion Chromatography 1990, V2, P255
(22) Qin, X; J Chromatogr A 1994, V686, P205 HCAPLUS
(23) Quitasol, J; J Chromatogr 1994, V671, P273 HCAPLUS
(24) Rowe, D; Bone 1988, V9, P297 HCAPLUS
(25) Rowe, D; Br J Exp Pathol 1980, V61, P303 HCAPLUS
(26) Rowe, D; unpublished results
(27) Sakiyama, N; J Chromatogr A 1996, V724, P279 HCAPLUS
(28) Smith, R; J Chromatogr Sci 1989, V27, P491 HCAPLUS
(29) Szabo, S; Acta Chim Acad Sci Hung 1954, V4, P211
(30) Tsai, E; J Chromatogr 1992, V596, P217 HCAPLUS
(31) Tsai, E; J Pharm Biomed Anal 1994, V12, P983 HCAPLUS
(32) Vaeth, E; Fresenius Z Anal Chem 1987, V329, P584 HCAPLUS
(33) Wada, H; Anal Chem 1972, V44, P1640 HCAPLUS
(34) Welcher, F; Organic Analytical Reagents 1948, V4, P370
(35) Yeh, P; J Chromatogr Sci 1981, V19, P27 HCAPLUS

IT **2809-21-4**
RL: ANT (Analyte); ANST (Analytical study)
(fluorometric detection of bisphosphonates using Al3+-morin post-column complexation agent after anion-exchange separation)

RN 2809-21-4 HCAPLUS

CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



IT 7429-90-5D, **Aluminum**, morin complexes, uses
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(fluorometric detection of bisphosphonates using Al3+-morin post-column complexation agent after anion-exchange separation)
RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

L74 ANSWER 20 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1998:207280** HCAPLUS
DN 128:275101
ED Entered STN: 11 Apr 1998
TI Gas and gaseous precursor filled microspheres as topical and subcutaneous delivery vehicles
IN Unger, Evan C.; Matsunaga, Terry O.; Yellowhair, David
PA Imarx Pharmaceutical Corp., USA
SO U.S., 40 pp., Cont.-in-part of U.S. Ser. No. 307,305.
CODEN: USXXAM
DT Patent
LA English
IC ICM A61K009-127
NCL 424450000
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): **62**

FAN.CNT 21

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5733572	A	19980331	US 1994-346426	19941129
	US 5088499	A	19920218	US 1990-569828	19900820
	WO 9109629	A1	19910711	WO 1990-US7500	19901219
	W: CA, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	AT 180170	E	19990615	AT 1991-902857	19901219
	ES 2131051	T3	19990716	ES 1991-902857	19901219
	JP 3309356	B2	20020729	JP 1991-503276	19901219
	JP 05502675	T2	19930513		
	US 5228446	A	19930720	US 1991-717084	19910618
	WO 9222247	A1	19921223	WO 1992-US2615	19920331
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	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE				
	AU 9220020	A1	19930112	AU 1992-20020	19920331
	AU 667471	B2	19960328		
	JP 06508364	T2	19940922	JP 1993-500847	19920331
	JP 3456584	B2	20031014		
	EP 616508	A1	19940928	EP 1992-912456	19920331
	EP 616508	B1	20010718		
	EP 616508	B2	20040929		
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	AT 203148	E	20010815	AT 1992-912456	19920331
	ES 2159280	T3	20011001	ES 1992-912456	19920331
	US 5469854	A	19951128	US 1993-76239	19930611
	US 5580575	A	19961203	US 1993-76250	19930611
	US 5348016	A	19940920	US 1993-88268	19930707
	US 5542935	A	19960806	US 1993-160232	19931130
	US 5585112	A	19961217	US 1993-159687	19931130
	US 5769080	A	19980623	US 1994-199462	19940222
	WO 9428874	A1	19941222	WO 1994-US5633	19940519
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	US 5773024	A	19980630	US 1994-307305	19940916
	CA 2177713	AA	19950608	CA 1994-2177713	19941130
	WO 9515118	A1	19950608	WO 1994-US13817	19941130
	W: AU, CA, CN, JP				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	EP 740528	A1	19961106	EP 1995-908414	19941130
	EP 740528	B1	20030326		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 09506098	T2	19970617	JP 1995-515763	19941130
	AT 235228	E	20030415	AT 1995-908414	19941130
	US 5571497	A	19961105	US 1995-468056	19950606
	CN 1180310	A	19980429	CN 1996-193069	19960327
	CN 1102045	B	20030226		

	US 6001335	A	19991214	US 1996-665719	19960618
	US 5935553	A	19990810	US 1996-758179	19961125
	US 6743779	B1	20040601	US 1997-841169	19970429
	US 5985246	A	19991116	US 1997-888426	19970708
	AU 9856271	A1	19980507	AU 1998-56271	19980224
	AU 713127	B2	19991125		
	AU 9888405	A1	19981203	AU 1998-88405	19981012
	AU 731072	B2	20010322		
	HK 1013625	A1	20000420	HK 1998-114978	19981223
	AU 9910043	A1	19990304	AU 1999-10043	19990104
	GR 3036877	T3	20020131	GR 2001-401740	20011011
PRAI	US 1989-455707	B2	19891222		
	US 1990-569828	A2	19900820		
	US 1991-716899	B2	19910618		
	US 1991-717084	A2	19910618		
	US 1993-76239	A2	19930611		
	US 1993-76250	A2	19930611		
	US 1993-159674	B2	19931130		
	US 1993-159687	A2	19931130		
	US 1993-160232	A2	19931130		
	US 1994-307305	A2	19940916		
	WO 1990-US7500	W	19901219		
	US 1991-716793	A	19910618		
	US 1991-750877	A3	19910826		
	US 1992-818069	A3	19920108		
	WO 1992-US2615	A	19920331		
	US 1992-967974	A3	19921027		
	US 1993-17683	A3	19930212		
	US 1993-18112	B3	19930217		
	US 1993-85608	A3	19930630		
	US 1993-88268	A3	19930707		
	US 1993-163039	A3	19931206		
	US 1994-212553	B2	19940311		
	AU 1994-70416	A3	19940519		
	US 1994-346426	A	19941129		
	AU 1995-21850	A3	19941130		
	WO 1994-US13817	W	19941130		
	US 1995-395683	A3	19950228		
	US 1995-468056	A3	19950606		
	US 1995-471250	A3	19950606		
	US 1996-640554	B2	19960501		
	US 1996-665719	A3	19960618		
	US 1997-785661	B2	19970117		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5733572	ICM	A61K009-127
	NCL	424450000
US 5733572	ECLA	A61K007/00M; A61K007/00M4D; A61K007/00M4; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/0U; A61K047/48W8D; A61K047/48W6D; A61K049/00B12K12; A61K049/00E12P; A61K049/00E12B
US 5469854	ECLA	A61K009/127; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/48H; A61K049/00E12B; A61K049/00E12P
US 5580575	ECLA	A61K007/00M; A61K007/00M4D; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/4W6D; A61K047/48W8D; A61K049/18K12; A61K049/22P4; A61K049/22P16
US 5348016	ECLA	A61K007/00M; A61K007/00M4D; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/4W6D; A61K047/48W8D; A61K049/18K12; A61K049/22P4; A61K049/22P16
US 5542935	ECLA	A61K007/00M; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/48W6D; A61K047/48W8D; A61K049/00B12K12; A61K049/00E12B; A61K049/00E12P; A61K007/00M4D; A61K009/127; A61K009/127P
US 5585112	ECLA	A61K007/00M; A61K007/00M4D; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/4W8D; A61K047/48W6D; A61K049/18K12; A61K049/22P4; A61K049/22P16
US 5769080	ECLA	A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/48W8D; A61K047/48W6D; A61K009/00B12K12; A61K049/00E12P; A61K049/00E12B
WO 9428874	ECLA	A61K009/127; A61K041/00M; A61K041/00U; A61K047/48W6D; A61K047/48W8D; A61K049/18K12; A61K049/22P4; A61K009/127P; A61K009/127P2

Search done by Noble Jarrell

US 5773024 ECLA A61K007/00M; A61K007/00M4D; A61K007/00M4; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/0U; A61K047/48W8D; A61K047/48W6D; A61K049/18K12; A61K049/22P4; A61K049/22P16; G01R033/28A
WO 9515118 ECLA A61K007/00M4; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/48W6D; A61K; A61K049/00B12K12; A61K049/00E12B; A61K049/00E12P
US 5571497 ECLA A61K007/00M; A61K007/00M4D; A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/4W8D; A61K049/22P4; A61K049/22P16
US 5935553 ECLA A61K009/127; A61K009/127P; A61K009/127P2; A61K041/00M; A61K041/00U; A61K047/48W8D; A61K047/48W6D; A61K009/00B12K12; A61K049/00E12P; A61K049/00E12B
US 6743779 ECLA A61K009/127; A61K009/127B2; A61K041/00M; A61K048/00; C12N015/87; C12N015/88
US 5985246 ECLA A61K009/127; A61K009/127P; A61K041/00M; A61K041/00U; A61K047/48W8D; A61K049/00E12B; A61K049/00E12P

AB Gas and gaseous precursor filled microspheres, and foams provide novel topical and s.c. delivery vehicles for various active ingredients, including drugs and cosmetics. Gas and gaseous precursor filled microcapsules were prepared from dipalmitoylphosphatidylcholine.

ST microcapsule gas filled; topical microcapsule gas filled; subcutaneous microcapsule gas filled

IT Carbohydrates, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(acidic; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Quaternary ammonium compounds, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(alkylbenzyldimethyl, chlorides; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Peptides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antisense; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Diglycerides
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(digalactosyl; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Alditols
Sterols
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(esters; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Hydrocarbons, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fluoro; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Acacia
Alcohols, biological studies
Alkanes, biological studies
Allergy inhibitors
Amines, biological studies
Anthocyanins
Anti-inflammatory agents
Antibacterial agents
Antibiotics
Anticoagulants
Antioxidants
Antisense oligonucleotides
Antiviral agents
Bentonite, biological studies
Buffers
Canola oil
Carbohydrates, biological studies
Cardiovascular agents
Chelating agents
Collagens, biological studies
Coloring materials
Corn oil
Cosmetics
DNA
Diuretics
Dystrophin
Elastins
Enkephalins

Enzymes, biological studies
Essential oils
Esters, biological studies
Fatty acids, biological studies
Fluoropolymers, biological studies
Foaming agents
Fungicides
Gases
Gene, animal
Glycolipids
Glycols, biological studies
Growth factors, animal
Hormones, animal, biological studies
Immunosuppressants
Lipids, biological studies
Micelles
Olive oil
Peanut oil
Peptides, biological studies
Perfluorocarbons
Petrolatum
Phosphatidic acids
Phosphatidylcholines, biological studies
Phosphatidylethanolamines, biological studies
Phosphatidylglycerols
Phosphatidylinositols
Phosphatidylserines
Phospholipids, biological studies
Polyamides, biological studies
Polyesters, biological studies
Polyolefins
Polyoxyalkylenes, biological studies
Polysaccharides, biological studies
Polyurethanes, biological studies
Preservatives
Protozoacides
Quaternary ammonium compounds, biological studies
Radionuclides, biological studies
Safflower oil
Sphingolipids
Sulfatides
Sulfoxides
Terpenes, biological studies
Tocopherols
Tuberculostatics
Vitamins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Interleukin 2
Interleukin 4
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(genes, DNA encoding; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Anesthetics
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(local; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Drug delivery systems
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(microcapsules; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Encapsulation
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(microencapsulation; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Antibodies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(monoclonal; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Drug delivery systems
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(ointments; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Uronic acids
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(polyuronic acids; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT Carbohydrates, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sugar esters; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT 50-02-2, Dexamethasone 50-03-3, Hydrocortisone acetate 50-04-4, Cortisone acetate 50-23-7, Hydrocortisone 50-24-8 50-33-9, Phenylbutazone, biological studies 50-56-6, Oxytocin, biological studies 50-70-4, Sorbitol, biological studies 50-78-2, Aspirin 50-81-7, Ascorbic acid, biological studies 51-05-8, Procaine hydrochloride 51-34-3, Scopolamine 52-21-1 52-67-5, Penicillamine 53-03-2, Prednisone 53-36-1, Methylprednisolone acetate 53-86-1, Indomethacin 54-05-7, Chloroquine 54-11-5, Nicotine 54-85-3, Isoniazid 56-75-7, Chloramphenicol 56-81-5, 1,2,3-Propanetriol, biological studies 57-09-0, Cetyltrimethylammonium bromide 57-11-4, Octadecanoic acid, biological studies 57-13-6, Urea, biological studies 57-15-8, Chlorobutanol 57-55-6, 1,2-Propanediol, biological studies 57-88-5, Cholesterol, biological studies 58-08-2, Caffeine, biological studies 59-02-9, .alpha.-Tocopherol 60-00-4, Edta, biological studies 60-54-8, Tetracycline 61-32-5, Methicillin 61-33-6, Penicillin g, biological studies 61-68-7, Mefenamic acid 64-17-5, Ethanol, biological studies 65-49-6, p-Aminosalicylic acid 65-85-0, Benzoic acid, biological studies 66-79-5, Oxacillin 67-43-6, DTPA 67-56-1, Methanol, biological studies 67-68-5, Dmso, biological studies 67-78-7, Triamcinolone diacetate 68-19-9D, Cyanocobalamin, derivs. 68-41-7, Cycloserine 69-53-4, Ampicillin 69-72-7, Salicylic acid, biological studies 73-78-9, Lidocaine hydrochloride 74-88-4, Iodomethane, biological studies 74-98-6, Propane, biological studies 75-00-3, Chloroethane 75-10-5, Difluoromethane 75-18-3, Methyl sulfide 75-19-4, Cyclopropane 75-28-5, Isobutane 75-29-6, 2-Chloropropane 75-31-0, 2-Aminopropane, biological studies 75-34-3, 1,1-Dichloroethane 75-43-4, Dichlorofluoromethane 75-45-6, Chlorodifluoromethane 75-46-7, Trifluoromethane 75-56-9, biological studies 75-61-6, Dibromodifluoromethane 75-63-8, Bromotrifluoromethane 75-69-4, Trichlorofluoromethane 75-71-8, Dichlorodifluoromethane 75-72-9, Chlorotrifluoromethane 75-73-0, Tetrafluoromethane 76-13-1, 1,1,2-Trichloro-1,2,2-trifluoroethane 76-15-3, 1-Chloro-1,1,2,2,2-pentafluoroethane 76-16-4, Hexafluoroethane 76-19-7, Perfluoropropane 76-25-5, Triamcinolone acetonide 77-92-9, Citric acid, biological studies 78-78-4, 2-Methylbutane 78-79-5, biological studies 78-80-8 79-81-2, Retinol palmitate 80-08-0 83-43-2, Methylprednisolone 87-08-1, Penicillin v 87-73-0, Saccharic acid 93-60-7, Methyl nicotinate 94-14-4, Isobutyl p-aminobenzoate 94-26-8, Butylparaben 95-80-7, 2,4-Diaminotoluene 96-40-2, 3-Chlorocyclopentene 96-49-1, 1,3-Dioxolan-2-one 98-96-4, Pyrazinamide 99-76-3, Methylparaben 100-51-6, Benzyl alcohol, biological studies 102-71-6, biological studies 103-41-3, Benzyl cinnamate 106-98-9, 1-Butene, biological studies 106-99-0, 1,3-Butadiene, biological studies 107-00-6, 1-Butyne 107-01-7, 2-Butene 107-25-5, Methyl vinyl ether 107-41-5, Hexylene glycol 108-95-2, Phenol, biological studies 109-66-0, n-Pentane, biological studies 109-67-1, 1-Pentene 109-92-2, Ethyl vinyl ether 109-93-3 110-27-0, Isopropyl myristate 110-44-1, Sorbic acid 111-02-4, Squalene 111-42-2, biological studies 112-30-1, 1-Decanol 112-53-8, 1-Dodecanol 112-72-1, Myristyl alcohol 112-80-1, 9-Octadecenoic acid (Z)-, biological studies 112-92-5, n-Octadecyl alcohol 114-07-8, Erythromycin 115-10-6, Methyl ether 115-25-3, Octafluorocyclobutane 118-42-3, Hydroxychloroquine 118-58-1, Benzyl salicylate 121-54-0, Benzethonium chloride 122-18-9, Benzyldimethyl hexadecylammonium chloride 122-57-6, 4-Phenyl-3-butene-2-one 123-03-5 124-03-8, Cetyldimethylethylammonium bromide 124-38-9, Carbon dioxide, biological studies 124-40-3, Dimethylamine, biological studies 124-94-7, Triamcinolone 125-02-0, Prednisolone sodium phosphate 125-04-2, Hydrocortisone sodium succinate 126-07-8, Griseofulvin 126-18-1, Smilagenin 126-19-2, Sarsasapogenin 129-20-4, Oxyphenbutazone 130-95-0, Quinine 133-51-7, Meglumine antimonate 136-47-0, Tetracaine hydrochloride 137-66-6, Ascorbyl palmitate 139-07-1, Benzyldimethyldodecylammonium chloride 139-08-2, Benzyldimethyl tetradecylammonium chloride 140-72-7, Cetylpyridinium bromide 141-43-5, biological studies 143-28-2, Oleyl alcohol 143-62-4, Digitoxigenin 147-52-4, Nafcillin 151-21-3, Sodium lauryl sulfate, biological studies 151-73-5, Betamethasone sodium phosphate 154-21-2, Lincomycin 287-23-0, Cyclobutane 302-79-4, Retinoic acid 334-99-6, Nitrosotrifluoromethane 335-02-4, Nitrotrifluoromethane 335-05-7, Trifluoromethanesulfonyl fluoride 335-57-9, Perfluoroheptane 338-65-8, 2-Chloro-1,1-difluoroethane 350-51-6, 3-Fluorostyrene

353-36-6, Fluoroethane 353-85-5, Trifluoroacetonitrile 353-87-7, Bromodifluoronitrosomethane 354-25-6, 1-Chloro-1,1,2,2-tetrafluoroethane 354-72-3, Nitrosopentafluoroethane 354-80-3, Perfluoroethylamine 354-81-4, Nitropentafluoroethane 355-25-9, Decafluorobutane 355-42-0, Perfluorohexane 357-26-6, Perfluoro-1-butene 359-35-3, 1,1,2,2-Tetrafluoroethane 360-89-4, Perfluoro-2-butene 371-67-5, 1,1,1-Trifluorodiazoethane 371-77-7 371-78-8, Trifluoromethyl sulfide 373-52-4, Bromofluoromethane 374-07-2, 1,1-Dichloro-1,2,2,2-tetrafluoroethane 376-87-4, Perfluoropent-1-ene 378-44-9, Betamethasone 420-45-1, 2,2-Difluoropropane 420-46-2, 1,1,1-Trifluoroethane 421-56-7, Chlorodifluoronitromethane 421-83-0, Trifluoromethanesulfonyl chloride 423-26-7, Heptafluoro-1-nitrosopropane 423-33-6, Propane, 1,1,1,2,2,3,3,heptafluoro-3-nitro- 430-53-5, 1,1-Dichloro-2-fluoroethane 435-97-2, Phenprocoumon 443-48-1, Metronidazole 460-12-8, Butadiyne 460-13-9, 1-Fluoropropane 461-68-7, Tetrafluoroallene 463-49-0, Allene 463-58-1, Carbonyl sulfide 463-82-1, Neopentane 465-65-6, Naloxone 465-99-6, Hederagenin 482-54-2, Cyclohexanediaminetetraacetic acid 503-17-3, 2-Butyne 508-02-1, Oleanolic acid 508-99-6, Hydrocortisone cypionate 514-36-3, Fludrocortisone acetate 521-13-1, Cholesterol butyrate 526-95-4, Gluconic acid 532-32-1, Sodium benzoate 536-33-4, Ethionamide 540-54-5, 1-Chloropropane 547-64-8, Methyl lactate 555-43-1, Glycerol tristearate 555-44-2, Glycerol tripalmitate 555-45-3, Glycerol trimyristate 559-40-0, Octafluorocyclopentene 563-45-1, 3-Methyl-1-butene 563-46-2, 2-Methyl-1-butene 582-25-2, Potassium benzoate 590-19-2, 1,2-Butadiene 591-93-5, 1,4-Pentadiene 593-53-3, Fluoromethane 593-70-4, Chlorofluoromethane 593-98-6, Bromochlorofluoromethane 594-11-6, Methylcyclopropane 598-23-2, 3-Methyl-1-butyne 598-53-8, Methyl iso-propyl ether 598-56-1 598-61-8, Methylcyclobutane 601-34-3, Cholesterol palmitate 623-84-7, Propylene glycol diacetate 624-72-6, 1,2-Difluoroethane 624-91-9, Methyl nitrite 625-04-7, 4-Amino-4-methylpentan-2-one 632-58-6, Tetrachlorophthalic acid 644-62-2 661-54-1, 3,3,3-Trifluoropropyne 661-97-2, 1,1,1,2,3,3-Hexafluoro-2,3 dichloropropane 677-56-5, 1,1,1,2,2,3-Hexafluoropropane 678-26-2, Perfluoropentane 684-16-2, Hexafluoro acetone 685-63-2, Hexafluoro-1,3-butadiene 689-97-4, Vinyl acetylene 692-50-2, Perfluoro-2-butyne 697-11-0, Perfluorocyclobutene 767-00-0, 4-Cyanophenol 768-94-5, Amantadine 822-16-2, Sodium stearate 921-13-1, Chlorodinitromethane
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

IT 927-84-4, Trifluoromethyl peroxide 928-45-0, Butyl nitrate 929-59-9 931-91-9, Hexafluorocyclopropane 987-24-6, Betamethasone acetate 1070-11-7, Ethambutol hydrochloride 1119-94-4, Lauryltrimethylammonium bromide 1119-97-7, Myristyltrimethylammonium bromide 1177-87-3, Dexamethasone acetate 1180-43-4, Cholesterol isobutyrate 1191-96-4, Ethylcyclopropane 1256-86-6, Cholesterol sulfate 1314-13-2, Zinc oxide, biological studies 1321-10-4, Chlorocresol 1323-39-3, Propylene glycol monostearate 1323-83-7, Glycerol distearate 1327-43-1, Magnesium aluminum silicate 1338-39-2, Sorbitan monolaurate 1338-41-6, Sorbitan monostearate 1338-43-8, Sorbitan monooleate 1344-95-2, Calcium silicate 1397-89-3, Amphotericin b 1398-61-4, Chitin 1400-61-9, Nystatin 1404-04-2, Neomycin 1405-37-4, Capreomycin sulfate 1406-16-2, Vitamin d 1406-18-4, Vitamin e 1493-03-4, Difluoroiodomethane 1597-82-6, Paramethasone acetate 1630-94-0, 1,1-Dimethylcyclopropane 1722-62-9, Mepivacaine hydrochloride 1759-88-2 1842-05-3, 1,1-Dichloro-1,2-difluoroethane 2022-85-7, Flucytosine 2314-97-8, Iodotrifluoromethane 2366-52-1, 1-Fluorobutane 2375-03-3, Methylprednisolone sodium succinate 2392-39-4, Dexamethasone sodium phosphate 2462-63-7, Dioleoylphosphatidylethanolamine 2511-95-7, 1,2-Dimethyl-cyclopropane 2551-62-4, Sulfur hexafluoride 2644-64-6, Dipalmitoylphosphatidylcholine 2671-68-3, Lanosterol acetate 2809-21-4, Etidronic acid 3116-76-5, Dicloxacillin 3385-03-3, Flunisolide 3485-14-1, Cyclacillin 3511-16-8, Hetacillin 3529-04-2, Benzyldimethyl hexadecylammonium bromide 3810-74-0, Streptomycin sulfate 3858-89-7, Chloroprocaine hydrochloride 3992-98-1, Ergosterol palmitate 4539-70-2, Distearoylphosphatidylcholine 4697-36-3, Carbenicillin 4786-20-3, Crotononitrile 4901-75-1, 3-Ethyl-3-methyldiaziridine 5534-09-8, Beclomethasone dipropionate 5536-17-4, Vidarabine 5611-51-8, Triamcinolone hexacetonide 5714-22-7, Sulfur fluoride (S2F10) 6000-74-4, Hydrocortisone sodium phosphate 6556-12-3, Glucuronic acid 7047-84-9, Aluminum monostearate 7235-40-7, Beta carotene 7281-04-1, Benzyldimethyldodecylammonium bromide 7440-01-9, Neon, biological studies 7440-15-5, Rhenium, biological studies 7440-24-6, Strontium, biological studies 7440-37-1, Argon, biological studies

7440-59-7, Helium, biological studies 7440-63-3, Xenon, biological studies 7440-65-5, Yttrium, biological studies 7553-56-2, Iodine, biological studies 7631-86-9, Silicon dioxide, biological studies 7637-07-2, Boron trifluoride, biological studies 7681-14-3, Prednisolone tebutate 7727-37-9, Nitrogen, biological studies 7732-18-5, Water, biological studies 7782-41-4, Fluorine, biological studies 7782-44-7, Oxygen, biological studies 7783-82-6, Tungsten hexafluoride 9000-07-1, Carrageenan 9000-30-0, Guar gum 9000-65-1, Tragacanth 9000-69-5, Pectin 9001-78-9, Alkaline phosphatase 9002-06-6, Thymidine kinase 9002-18-0, Agar 9002-60-2, Corticotropin, biological studies 9002-61-3, Human chorionic gonadotropin 9002-62-4, Prolactin, biological studies 9002-68-0, FSH 9002-71-5, Thyrotropin 9002-76-0, Gastrin 9002-84-0, Polytetrafluoroethylene 9002-86-2, Polyvinylchloride 9002-88-4, Polyethylene 9002-89-5, Polyvinyl alcohol 9003-07-0, Polypropylene 9003-39-8, Povidone 9003-53-6, Polystyrene 9004-10-8, Insulin, biological studies 9004-34-6, Cellulose, biological studies 9004-53-9, Dextrin 9004-54-0, Dextran, biological studies 9004-61-9, Hyaluronic acid 9004-62-0, Hydroxyethyl cellulose 9004-64-2, Hydroxypropyl cellulose 9004-65-3, Hydroxypropyl methylcellulose 9004-67-5, Methylcellulose 9004-98-2, Polyoxyethylene oleyl ether 9004-99-3, Polyoxyethylene stearate 9005-25-8, Starch, biological studies 9005-32-7, Alginic acid 9005-37-2, Propylene glycol alginate 9005-38-3, Sodium alginate 9005-49-6, Heparin, biological studies 9005-64-5, Polysorbate 20 9005-65-6, Polysorbate 80 9005-66-7, Polysorbate 40 9005-67-8, Polysorbate 60 9005-79-2, Glycogen, biological studies 9005-82-7, Amylose 9007-12-9, Calcitonin 9007-27-6, Chondroitin 9007-92-5, Glucagon, biological studies 9011-14-7, Polymethylmethacrylate 9011-97-6, Cholecystokinin 9012-36-6, Agarose 9012-72-0, Glucan 9013-95-0, Levan 9014-63-5, Xylan 9026-93-1, Adenosine deaminase 9034-40-6, Luteinizing hormone releasing hormone 9035-81-8, Trypsin inhibitor 9036-88-8, Mannan 9037-22-3, Amylopectin 9037-55-2, Galactan 9037-90-5, Fructan 9046-38-2, Galacturonan 9046-40-6, Pectic acid 9050-04-8 9057-02-7, Pullulan 9060-75-7, L-Arabinan 9072-19-9, Fucoidan 10024-97-2, Nitrous oxide, biological studies 10549-91-4 11103-57-4, Vitamin a 11138-66-2, Xanthan gum 12001-79-5, Vitamin k 13264-41-0, Cetyldimethylethylammonium chloride 13292-46-1, Rifampin 15686-71-2, Cephalexin 15687-27-1, Ibuprofen 17435-78-8, Cholesterol glucuronide 18010-40-7, Bupivacaine hydrochloride 18323-44-9, Clindamycin 18656-38-7, Dimyristoylphosphatidylcholine 18656-40-1, Dilauroylphosphatidylcholine 18773-88-1, Benzyldimethyl tetradecylammonium bromide 19247-09-7 19600-01-2, Ganglioside gm 2 20947-95-9 22204-53-1, Naproxen 22494-42-4, Diflunisal 22916-47-8, Miconazole 24521-77-5 24634-61-5, Potassium sorbate 24764-97-4, 2-Bromobutyraldehyde 24937-47-1, Polyarginine 25038-59-9, Pet, biological studies 25104-18-1, Polylysine 25212-18-4, Polyarginine 25322-68-3 25322-69-4, Polypropylene glycol 26023-30-3, Poly[oxy(1-methyl-2-oxo-1,2-ethanediyl)] 26100-51-6, Polylactic acid 26171-23-3, Tolmetin 26266-57-9, Sorbitan monopalmitate 26787-78-0, Amoxicillin 27070-61-7, Hexafluoropropane 29593-08-6 30516-87-1, Azidothymidine 31362-50-2, Bombesin 31566-31-1, Glyceryl monostearate 33735-55-6 34077-87-7, Dichlorotrifluoroethane 34787-01-4, Ticarcillin 35602-69-8, Cholesterol stearate 36322-90-4, Piroxicam 36637-19-1, Etidocaine hydrochloride 36653-82-4, Cetyl alcohol 36791-04-5, Ribavirin 37266-93-6, Sucrose laurate 37318-31-3, Sucrose stearate 37330-34-0 37331-28-5, Pustulan 37377-93-8, .beta.-Lipotropin 37758-47-7, Ganglioside gm1 38000-06-5, Polylysine 38194-50-2, Sulindac 38821-53-3, Cephradine 39300-95-3, Sucrose palmitate 39422-22-5, .gamma.-Lipotropin 50370-12-2, Cefadroxil 50402-72-7, 2,3,6-Trimethylpiperidine 50972-17-3, Bacampicillin 53563-63-6, Glycerol dimyristate 53994-73-3, Cefaclor 57223-18-4, 1-Nonen-3-yne 57916-92-4, Carbomer 934p 59227-89-3, Azone 59277-89-3, Acyclovir 60095-23-0 60495-58-1, Galactocarolose 64612-25-5, Fucan 65277-42-1, Ketoconazole 67382-96-1, Melanin concentrating hormone 67896-63-3, Dipentadecanoylphosphatidylcholine 68302-57-8, Amlexanox 68354-92-7 68354-99-4 68737-67-7, Dioleoylphosphatidylcholine 69992-87-6, Keratan 73294-85-6 75634-40-1, Dermatan 76822-97-4 79217-60-0, Cyclosporin 98023-09-7 106392-12-5, Poloxamer 108173-78-0 109144-61-8 113669-21-9 116632-15-6, 1,2,3-Nonadecane-tricarboxylic acid-2-hydroxytrimethylester 117076-33-2 118248-91-2 127512-30-5, Cholesteryl(4'-trimethylammonio)butanoate
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

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172261-57-3 172261-58-4 173855-10-2 186198-32-3 205645-72-3
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)
IT 9002-79-3, Melanocyte stimulating hormone
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(genes, DNA encoding; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)
IT 9054-89-1
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(manganese-dependent; gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)
RE.CNT 314 THERE ARE 314 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Abra; US 5194266 1993 HCAPLUS
(2) Aida; US 4620546 1986
(3) Anderson; J Am Chem Soc 1970, V92(8), P2450 HCAPLUS
(4) Anon; GB 1044680 1966
(5) Anon; WO 8002365 1980
(6) Anon; WO 8201642 1982
(7) Anon; EP 0107559 1984 HCAPLUS
(8) Anon; WO 8501161 1985
(9) Anon; EP 0077752 B1 1986 HCAPLUS
(10) Anon; WO 8600238 1986 HCAPLUS
(11) Anon; WO 8601103 1986 HCAPLUS
(12) Anon; EP 0231091 1987 HCAPLUS
(13) Anon; EP 0243947 1987
(14) Anon; JP 62-286534 SH 1987
(15) Anon; EP 0272091 1988 HCAPLUS
(16) Anon; EP 0320433 A2 1988
(17) Anon; GB 2193095 1988 HCAPLUS
(18) Anon; JP 63-60943 1988 HCAPLUS
(19) Anon; EP 0324938 1989
(20) Anon; EP 0338971 1989
(21) Anon; WO 8905040 1989 HCAPLUS
(22) Anon; EP 0361894 1990 HCAPLUS
(23) Anon; EP 357163 A1 1990 HCAPLUS
(24) Anon; WO 9001952 1990 HCAPLUS
(25) Anon; WO 9004384 1990
(26) Anon; WO 9004943 1990
(27) Anon; EP 0216730 1991 HCAPLUS
(28) Anon; EP 0357164 B1 1991
(29) Anon; EP 0458745 A1 1991 HCAPLUS
(30) Anon; EP 0467031 A2 1991 HCAPLUS
(31) Anon; EP 441468 A2 1991 HCAPLUS
(32) Anon; WO 9100086 1991
(33) Anon; WO 9112823 1991
(34) Anon; WO 9115244 1991 HCAPLUS
(35) Anon; EP 0314764 B1 1992 HCAPLUS
(36) Anon; WO 9210166 1992 HCAPLUS
(37) Anon; WO 9211873 1992 HCAPLUS
(38) Anon; WO 9217212 1992 HCAPLUS
(39) Anon; WO 9217213 1992 HCAPLUS
(40) Anon; WO 9217436 1992 HCAPLUS
(41) Anon; WO 9221382 1992 HCAPLUS
(42) Anon; EP 0554213 A1 1993 HCAPLUS
(43) Anon; AU 8930351 B 1993
(44) Anon; WO 9305819 1993 HCAPLUS
(45) Anon; WO 9306869 1993 HCAPLUS
(46) Anon; WO 9313809 1993 HCAPLUS
(47) Anon; WO 9317718 1993 HCAPLUS
(48) Anon; WO 9320802 1993 HCAPLUS
(49) Anon; WO 9406477 1994 HCAPLUS
(50) Anon; WO 9409829 1994 HCAPLUS
(51) Anon; WO 9416739 1994 HCAPLUS
(52) Anon; WO 9421302 1994 HCAPLUS
(53) Anon; WO 9506518 1995 HCAPLUS
(54) Anon; WO 9507072 1995 HCAPLUS
(55) Anon; WO 9523615 1995 HCAPLUS
(56) Anon; EP 0727225 A2 1996 HCAPLUS
(57) Anon; WO 9604018 1996 HCAPLUS
(58) Anon; WO 9609793 1996
(59) Anon; WO 9636286 1996
(60) Anon; Brochure, Experience, Sonicator, Heat Systems-Ultrasonics, Inc 1987
(61) Anon; Convex Curved Linear Array Ultrasound Transducers Operator's Manual 1989, 4700-0003-1C, P4

(62) Anon; Dorland's Illustrated Medical Dictionary, 27th ed 1988, P946
(63) Anon; Filtration, Filter Holders 1991, P744
(64) Anon; Filtration, Membranes 1991, P750
(65) Anon; Filtration, Syringe Filters 1991, P766
(66) Anon; PR Newswire 1986
(67) Anon; Scientific Apparatus Catalog 92/93 1991, P1511
(68) Arai; US 4996041 1991 HCAPLUS
(69) Aronberg; Computed Body Tomography, Chapter 2 1988, P9
(70) Baker; US 4549892 1985
(71) Baldeschwieler; US 4310505 1982 HCAPLUS
(72) Baldeschwieler; US 4310506 1982 HCAPLUS
(73) Bangham; J Mol Biol 1965, V13, P238 HCAPLUS
(74) Barenholtz; US 5316771 1994 HCAPLUS
(75) Belykh, A; Fermakol Toksikol (MOSC) 1981, V44(3), P322 HCAPLUS
(76) Bonsen; US 4344929 1982 HCAPLUS
(77) Brown; Annual Review Medicine 1988, V39, P221 MEDLINE
(78) Butler, M; Mammalian Cell Biotechnology:A Practical Approach 1991, P57
(79) Carson; US 4689986 1987
(80) Carson; Ultrasound in Med & Biol 1978, V3, P341 MEDLINE
(81) Cerny; US 4957656 1990 HCAPLUS
(82) Chang; Canadian J of Phys and Pharm 1966, V44, P115 MEDLINE
(83) Chang; Science 1964, V146, P524 HCAPLUS
(84) Chapman; US 4675310 1987 HCAPLUS
(85) Chapman;.J Biol; Chem 1974, V249, P2512 HCAPLUS
(86) Chapman, D; Liposome Technology 1984, V1, P1 HCAPLUS
(87) Charpiot; US 4985550 1991 HCAPLUS
(88) Cheng; Investigative Radiology 1987, V22, P47 HCAPLUS
(89) Chiellini; Polymers in Medicine II: Biomedical and Pharmaceutical Applications P387
(90) Clark; US 4775522 1988 HCAPLUS
(91) Cohen; US 5487390 1996 HCAPLUS
(92) Cohrs; US 4108806 1978 HCAPLUS
(93) Cook; US 4533254 1985 HCAPLUS
(94) Crowe; Archives of Biochemistry and Biophysics 1983, V220, P477 HCAPLUS
(95) Crowe; Archives of Biochemistry and Biophysics 1985, V242, P240 HCAPLUS
(96) Cullis; US 5008050 1991 HCAPLUS
(97) Day; US 4789501 1988 HCAPLUS
(98) Deamer; Chemistry and Physics of Lipids 1986, V40, P167 HCAPLUS
(99) Deasy; Microencapsulation and Related Drug Processes, Chs 9 and 10 1983, V20, P195
(100) Degier; Annals of the New York Academy of Sciences 1978, V308, P85 HCAPLUS
(101) Desai; US 5362478 1994 HCAPLUS
(102) Dittrich; The Second Annual International Symposium on Contrast Agents in Diagnostic Ultrasound 1996
(103) Do-Huu; US 4586512 1986
(104) Dory; US 4658828 1987
(105) Drewes; US 4315514 1982
(106) D'Arrigo; US 4684479 1987 HCAPLUS
(107) D'Arrigo; US 5215680 1993 HCAPLUS
(108) Erbel; US 5137928 1992 HCAPLUS
(109) Erbel; US 5190982 1993 HCAPLUS
(110) Erbel; US 5205287 1993
(111) Farmer; US 4776991 1988 HCAPLUS
(112) Feigenbaum; Circulation 1970, VXL1, P615
(113) Feinstein; US 4572203 1986
(114) Feinstein; US 4718433 1988
(115) Feinstein; US 4774958 1988
(116) Feinstein; JACC 1984, V3(1), P14 HCAPLUS
(117) Felgner; Proc Natl Acad Sci 1987, V84, P7413 HCAPLUS
(118) Fitzpatrick; Inorganic Chemistry 1994, V13(3), P568
(119) Frezard; Art, Cells, Blood Subs, and Immob Biotech 1994, V22(4), P1403 HCAPLUS
(120) Frezard; Biochimica et Biophysica Acta 1994, V1192, P61 HCAPLUS
(121) Fritzsch; Inv Rad 1988, V23, PS302
(122) Fukuda; J Am Chem Soc 1986, V108, P2321 HCAPLUS
(123) Fulwyler; US 4162282 1979 HCAPLUS
(124) Gabizon; Proc Natl Acad Sci 1988, V85, P6949 HCAPLUS
(125) Gamble; US 4728575 1988
(126) Garelli; Biochimica et Biophysica Acta 1992, V1127, P41 HCAPLUS
(127) Garner; US 3945956 1976 HCAPLUS
(128) Garner; US 4179546 1979 HCAPLUS
(129) Geho; US 4603044 1986 HCAPLUS
(130) Giddey; US 5310540 1994 HCAPLUS
(131) Glajch; US 5147631 1992 HCAPLUS
(132) Gordon; US 4569836 1986 HCAPLUS

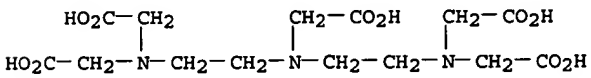
(133) Gordon; US 4731239 1988 HCAPLUS
(134) Gramiak; Radiology 1971, P415 MEDLINE
(135) Gregoriadis, G; Liposome Technology 1984, VI, P1
(136) Grinstaff; US 5498421 1996 HCAPLUS
(137) Grinstaff; US 5505932 1996
(138) Gutknecht; 1977 HCAPLUS
(139) Halliday; US 4790891 1988 HCAPLUS
(140) Henderson; US 5219538 1993 HCAPLUS
(141) Herbig; US 3732172 1973 HCAPLUS
(142) Higgins; US 4728578 1988 HCAPLUS
(143) Hilmann; US 4466442 1984
(144) Himmel; US 3594326 1971
(145) Hope; Biochimica et Biophysica Acta 1985, V812, P55 HCAPLUS
(146) Hope; Chemistry and Physics of Lipids 1986, V40, P89
(147) Hug; Biochimica et Biophysica Acta 1991, V1097, P1 HCAPLUS
(148) Iga; US 4877561 1989 HCAPLUS
(149) Jacobs; Current Eye Research 1986, V5(8), P575 MEDLINE
(150) Jain; Introduction to Biological Membranes, Ch 9 1980, P192
(151) Jay; US 5019370 1991 HCAPLUS
(152) Kaufman; US 5171755 1992 HCAPLUS
(153) Kaufman; US 5350571 1994 HCAPLUS
(154) Kawai; Molecular and Cellular Biology 1984, V4, P1172 HCAPLUS
(155) Keana; US 4863717 1989 HCAPLUS
(156) Kee; Computed Body, Chapter 1 1988, P1
(157) Keller; LV Contrast Echocardiography 1987, V114(3), P570 MEDLINE
(158) Kenaga; US 3293114 1966 HCAPLUS
(159) Kirkland; US 5496535 1996 HCAPLUS
(160) Klaveness; US 5529766 1996 HCAPLUS
(161) Klaveness; US 5536490 1996 HCAPLUS
(162) Klaveness; US 5567413 1996
(163) Knight; US 5049388 1991 HCAPLUS
(164) Kost; Polymers in Medicine II P387
(165) Kuo; J Am Chem Soc 1991, V113, P9027 HCAPLUS
(166) Lambert; US 5552133 1996 HCAPLUS
(167) Lambert; US 5606973 1997
(168) Lele; US 4893624 1990
(169) Lencki; US 4822534 1989 HCAPLUS
(170) Lohrmann; US 5536489 1996
(171) Lohrmann; US 5562893 1996 HCAPLUS
(172) Long; US 4865836 1989 HCAPLUS
(173) Long; US 4927623 1990 HCAPLUS
(174) Long; US 4987154 1991 HCAPLUS
(175) Long; US 4993415 1991 HCAPLUS
(176) Mackaness; US 4192859 1980 HCAPLUS
(177) Macnaughton; Biochimica et Biophysica Acta 1980, V597, P193
(178) Madden; Chemistry and Physics of Lipids 1990, V53, P37 HCAPLUS
(179) Mann; Journal of Colloid and Interface Science 1988, V122(2), P326 HCAPLUS
(180) Marsh; CRC Handbook of Lipid Bilayers 1990, P139
(181) Martin; US 4737323 1988
(182) Martin; US 5213804 1993 HCAPLUS
(183) Mathiowitz; US 4898734 1990
(184) Mathiowitz; Journal of Applied Polymer Science 1981, V26, P809 HCAPLUS
(185) Mathiowitz; Journal of Applied Polymer Science 1988, V35, P755 HCAPLUS
(186) Mattrey; Investigative Radiology 1994, V29(Supp 2), PS139
(187) Mattrey; Radiology 1982, V145, P759 MEDLINE
(188) Mattrey; Radiology 1987, V163, P339 MEDLINE
(189) May; Acta virol 1991, V35, P107 MEDLINE
(190) Mayer; Biochimica et Biophysica Acta 1986, V858, P161 MEDLINE
(191) Mayhew; Biochimica et Biophysica Acta 1984, V775, P169 HCAPLUS
(192) Mayhew; Methods in Enzymology 1987, V149, P64 HCAPLUS
(193) McAvoy; IEEE Engineering, Ultrasonics Symposium Proceedings V2, P677
(194) Meltzer; Ultrasound in Med & Biol 1981, V7(4), P377 MEDLINE
(195) Meybeck; US 5198225 1993 HCAPLUS
(196) Miller; Ultrasonics 1981, P217 MEDLINE
(197) Millington; US 4428924 1984 HCAPLUS
(198) Moore; US 5567765 1996 HCAPLUS
(199) Morehouse; US 3615972 1971
(200) Morris; US 4331654 1982 HCAPLUS
(201) Moseley; California Meeting of the Society for Magnetic Resonance in Medicine 1991
(202) Muhlradt; New Compounds 1967, V10, P129 HCAPLUS
(203) Nair; US 5078994 1992 HCAPLUS
(204) Nayer; Biochimica et Biophysica Acta 1989, V986, P200
(205) Netting; US 3960583 1976 HCAPLUS
(206) Nicolau; US 4938947 1990 HCAPLUS

(207) Olson; US 5433204 1995
(208) Ophir; Ultrasound in Med & Biol 1989, V15(4), P319 MEDLINE
(209) Ostro, M; Liposomes 1983, P102
(210) Pantely; The Second Annual International Symposium on Contrast Agents in Diagnostic Ultrasound 1996
(211) Payne; US 4830858 1989 HCAPLUS
(212) Popescu; US 4981692 1991 HCAPLUS
(213) Porter; US 5560364 1996
(214) Poznansky; Pharmacol, Rev 1984, V36, P277 HCAPLUS
(215) Priest; US 3532500 1970
(216) Quay; US 5393524 1995 HCAPLUS
(217) Quay; US 5409688 1995 HCAPLUS
(218) Quay; US 5558094 1996 HCAPLUS
(219) Quay; US 5558853 1996 HCAPLUS
(220) Quay; US 5558854 1996 HCAPLUS
(221) Quay; US 5558855 1996 HCAPLUS
(222) Quay; US 5573751 1996 HCAPLUS
(223) Quay; US 5595723 1997 HCAPLUS
(224) Radhakrishnan; US 4895719 1990 HCAPLUS
(225) Rasor; US 4442843 1984 HCAPLUS
(226) Rasor; US 4657756 1987 HCAPLUS
(227) Rasor; US 4681119 1987
(228) Rasor; US 5141738 1992 HCAPLUS
(229) Regen; J Am Chem Soc 1989, V102, P6638
(230) Reinhardt; US 5425366 1995
(231) Rembaum; US 4138383 1979 HCAPLUS
(232) Riess; US 5344930 1994 HCAPLUS
(233) Roberts; US 4921706 1990
(234) Rose, A; The Condensed Chemical Dictionary 1966, P728
(235) Runge; US 4615879 1986 HCAPLUS
(236) Ryan; US 4544545 1985 HCAPLUS
(237) Ryan; US 4900540 1990 HCAPLUS
(238) Sands; US 4420442 1983
(239) Sands; US 4421562 1983 HCAPLUS
(240) Sands; US 4540629 1985
(241) Sankaram; Proc Natl Acad Sci 1991, V88, P8686 HCAPLUS
(242) Santaella; FEBS 13463 1993, V336(3), P481 HCAPLUS
(243) Sato; Prog Lipid Res 1992, V4, P345
(244) Scarpa; Biochimica et Biophysica Acta 1971, V241, P789 HCAPLUS
(245) Schlief; US 5195520 1993
(246) Schmeider; US 5045304 1991 HCAPLUS
(247) Schneider; US 3873564 1975 HCAPLUS
(248) Schneider; US 4089801 1978
(249) Schneider; US 4224179 1980 HCAPLUS
(250) Schneider; US 4229360 1980 HCAPLUS
(251) Schneider; US 4229360 B1 1991 HCAPLUS
(252) Schneider; US 5271928 1993 HCAPLUS
(253) Schneider; US 5380519 1995 HCAPLUS
(254) Schneider; US 5413774 1995 HCAPLUS
(255) Schneider; US 5445813 1995 HCAPLUS
(256) Schneider; US 5531980 1996 HCAPLUS
(257) Schneider; US 5567414 1996 HCAPLUS
(258) Schutt; US 5540909 1996
(259) Schutt; Acad Radiol 1996, V3(Suppl 2), PS188
(260) Sears; US 4426330 1984 HCAPLUS
(261) Sears; US 4534899 1985 HCAPLUS
(262) Shell; US 5186922 1993 HCAPLUS
(263) Shiina; IEEE Engineering V2, P879
(264) Sigel, H; Metal Ions in Biological Systems:Antibiotics and Their Complexes 1985, V19
(265) Simons; Nature 1992, V359, P67 HCAPLUS
(266) Sinkula; J Pharm Sci 1975, V64, P181 HCAPLUS
(267) Sommerville; US 3015128 1962
(268) Stelmashok; Koordinatsionnaya Khimiya 1977, V3(4), P524 HCAPLUS
(269) Supersaxo; US 5470582 1995 HCAPLUS
(270) Swanson; Chapter 22, Pharmaceuticals in Medical Imaging 1990, P682
(271) Szoka; Proc Natl Acad Sci 1978, V75, P4194 HCAPLUS
(272) Ten Cate; JACC 1984, V3(1), P21 HCAPLUS
(273) Ter-Pogossian; Physical Principles and Instrumentation, Chapter 1 P1
(274) Thanassi; Biochemistry 1970, V9(3), P525 HCAPLUS
(275) Thompson; Science 1992, V258, P744 MEDLINE
(276) Tickner; US 4276885 1981
(277) Tilcock; Radiology 1989, V171, P77 MEDLINE
(278) Trubetskoy; Biochimica et Biophysica Acta 1992, V131, P311
(279) Uhlendorf; US 5410516 1995
(280) Umemura; IEEE 1992, O-7803-0785, P354

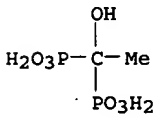
(281) Unger; US 5088499 1992 HCAPLUS
(282) Unger; US 5123414 1992
(283) Unger; US 5149319 1992
(284) Unger; US 5205290 1993 HCAPLUS
(285) Unger; US 5209720 1993
(286) Unger; US 5228446 1993 HCAPLUS
(287) Unger; US 5230882 1993 HCAPLUS
(288) Unger; US 5281408 1994 HCAPLUS
(289) Unger; US 5305757 1994
(290) Unger; US 5334381 1994
(291) Unger; US 5352435 1994
(292) Unger; US 5358702 1994 HCAPLUS
(293) Unger; US 5456900 1995 HCAPLUS
(294) Unger; US 5469854 1995 HCAPLUS
(295) Unger; US 5527521 1996 HCAPLUS
(296) Unger; US 5547656 1996 HCAPLUS
(297) Unger; Radiology 1989, V171, P81 MEDLINE
(298) Violante; Inv Rad 1988, V23, PS294
(299) Vion-Dury, J; J Pharmacol Exper Ther 1989, V250(3), P1113 HCAPLUS
(300) Wallach; US 5000960 1991 HCAPLUS
(301) Walters; US 3479811 1969 HCAPLUS
(302) Walters; US 3488714 1970 HCAPLUS
(303) Watmough; US 4646756 1987
(304) West; US 4781871 1988 HCAPLUS
(305) Widder; US 4844882 1989
(306) Widder; US 5315997 1994
(307) Williams; ASM News [American Society for Microbology] 1992, V58, P67
(308) Wolf; US 5114703 1992
(309) Woodle; US 5013556 1991 HCAPLUS
(310) Woodle; Biochimica et Biophysica Acta 1992, V1105, P193 HCAPLUS
(311) Yeung; J Microencapsulation 1988, V5, P331 HCAPLUS
(312) Yudelson; US 5196183 1993 HCAPLUS
(313) Zalutsky, M; Invest Radiol 1987, V22(2), P141 HCAPLUS
(314) Zhou; J of Controlled Release 1992, V19, P269 HCAPLUS

IT **67-43-6, DTPA 2809-21-4**, Etidronic acid
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(gas and gaseous precursor filled microspheres as topical and s.c. delivery vehicles)

RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 21 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1998:71105** HCAPLUS
DN 128:145166
ED Entered STN: 06 Feb 1998
TI Desiccant emulsion comprising kaolin and titanium dioxide for the skin
IN Chitarra Souza, Simoni; Martins Matheus, Luiz Gustavo
PA Industria E Comercio De Cosmeticos Natura Ltda., Brazil
SO PCT Int. Appl., 11 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM A61K007-48
CC 62-4 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI WO 9802138 A1 19980122 WO 1997-BR27 19970710
W: CA, MX, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
BR 9603084 A 19980505 BR 1996-3084 19960712
PRAI BR 1996-3084 A 19960712
CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9802138	ICM	A61K007-48
WO 9802138	ECLA	A61K007/48A

AB Desiccant composition, in emulsion form, for the skin, which comprises a new set of active agents with proven effectiveness to collaborate in the reconstitution of the skin affected by excessive skin secretions, turning it dryer until it acquires the characteristics of normal skin, associated to the reduction of local irritations and inflammations incidence, observed mainly in cases of acne. The referred active agents set is constituted by the association of two inorg. desiccant agents, kaolin and titanium dioxide, with several organic components, namely: a skin renovating agent, allantoin; a moisturizing agent, panthenol; a cicatrizant agent, calendula extract; an antiseptic agent, benzalkonium chloride; an anti-inflammatory agent, bisabolol and, as capillary permeability regulation agent, rutin. These active components are emulsified, resp. dispersed, in an aqueous vehicle, with the help of specific agents, as usual emulgators and humectants, and can also contain other cooperative components, as preservatives, emollients, thickeners, pigments and, eventually, sequestering agents, forming the final emulsion exhibiting the desired characteristics relating to physicochem. stability, consistency, endurance of its specific actuation, color and pleasant skin sensorial. Formulation of emulsion containing above compns. are disclosed.

ST desiccant emulsion kaolin titanium dioxide skin

IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkyl; desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Quaternary ammonium compounds, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(alkylbenzyldimethyl, chlorides; desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Wound healing promoters
(cicatrizants; desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Polyoxyalkylenes, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(derivs.; desiccant emulsion comprising kaolin and titanium dioxide for skin)

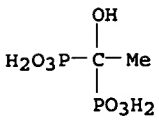
IT Anti-inflammatory agents
Antibacterial agents
Drying agents
Dyes
Emulsifying agents
Humectants
Pigments, nonbiological
Preservatives
Sequestering agents
Thickening agents
(desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Acrylic polymers, biological studies
Fatty acids, biological studies
Glycols, biological studies
Kaolin, biological studies
Lactoferrins
Lanolin
Paraffin oils
Polyoxyalkylenes, biological studies
Polysiloxanes, biological studies
Waxes
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Cosmetics
(emollients; desiccant emulsion comprising kaolin and titanium dioxide for skin)

IT Cosmetics

(emulsions; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Fatty acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(ethoxylated; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Calendula
(extract; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Alcohols, biological studies
Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty, ethoxylated; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Amines, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty, phosphated; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(fatty; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Cosmetics
(moisturizers; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT Fats and Glyceridic oils, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(vegetable; desiccant emulsion comprising kaolin and titanium dioxide for skin)
IT 50-00-0, Formaldehyde, biological studies 50-70-4, Sorbitol, biological studies 52-51-7, 2-Bromo-2-nitropropane 1,3 diol 56-81-5, Glycerol, biological studies 56-81-5D, Glycerol, derivs. 57-10-3, Palmitic acid, biological studies 60-00-4D, Edta, salts 65-85-0D, Benzoic acid, alkyl derivs., biological studies 70-51-9, Deferrioxamine 81-13-0, Panthenol; 97-59-6, Allantoin 99-96-7D, Paraben, derivs. 110-34-9, Isobutyl palmitate 111-60-4, Ethylene glycol stearate 112-10-7, Isopropyl stearate 112-80-1, Oleic acid, biological studies 112-92-5, 1-Octadecanol 122-99-6, Phenoxyethanol 153-18-4, Rutin. 504-78-9D, Thiazolidine, derivs. 515-69-5, Bisabolol 540-10-3, Cetyl palmitate 661-19-8, Behenyl alcohol 1332-37-2, Iron oxide, biological studies 1335-30-4, **Aluminum** silicate 1343-88-0, Magnesium silicate **2809-21-4**, Etidronic acid 4080-31-3, Quaternium 15 9002-89-5 9003-20-7, Polyvinyl acetate 9004-34-6D, Cellulose, derivs., biological studies 9005-25-8, Starch, biological studies 10233-13-3, Isopropyl laurate 11099-07-3, Glycerylstearate 12441-09-7, Sorbitan 13463-67-7, Titanium dioxide, biological studies 16958-85-3, Octyl palmitate 22882-95-7, Isopropyl linoleate 25322-68-3 25322-68-3D, Polyethylene glycol, derivs. 25339-09-7, Isocetyl stearate 29656-58-4D, Hydroxybenzoic acid, alkyl derivs. 35274-05-6, Cetyllactate 39236-46-9, Imidazolidinyl urea 67167-59-3, Polyethylene glycol stearate 68171-33-5, Isopropyl isostearate 78491-02-8, Diazolidinyl urea 93803-86-2, Octyl isostearate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(desiccant emulsion comprising kaolin and titanium dioxide for skin)
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Georgalas; US 4749563 A 1988 HCAPLUS
(2) Lancaster Group; WO 9617588 A 1996 HCAPLUS
(3) Schulke & Mayr; DE 3330628 A 1985 HCAPLUS
(4) The Boots Company; WO 9308793 A 1993 HCAPLUS
IT **2809-21-4**, Etidronic acid
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(desiccant emulsion comprising kaolin and titanium dioxide for skin)
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 22 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1997:756975 HCAPLUS
DN 128:16284
ED Entered STN: 04 Dec 1997
TI Agent and process for dyeing and tinting keratinous fibers
IN Hurschmann, Brigitta; Hollenberg, Detlef
PA Henkel Kommanditgesellschaft Auf Aktien, Germany; Hurschmann, Brigitta; Hollenberg, Detlef
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA German
IC ICM A61K007-13
CC 62-3 (Essential Oils and Cosmetics)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9742932	A1	19971120	WO 1997-EP2280	19970505
	W: AU, JP, US				
	RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	DE 19619071	A1	19971120	DE 1996-19619071	19960513
	AU 9728911	A1	19971205	AU 1997-28911	19970505
	AU 709167	B2	19990826		
	EP 914080	A1	19990512	EP 1997-922961	19970505
	EP 914080	B1	20010829		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE, PT, FI				
	JP 2000510131	T2	20000808	JP 1997-540457	19970505
	AT 204739	E	20010915	AT 1997-922961	19970505
	ES 2163767	T3	20020201	ES 1997-922961	19970505
PRAI	DE 1996-19619071	A	19960513		
	WO 1997-EP2280	W	19970505		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9742932	ICM	A61K007-13
DE 19619071	ECLA	A61K007/13

AB The affinity of direct dyes to keratinous fibers, especially human hair, is markedly improved by adding a combination of (1) an amino polycarboxylic acid (e.g. EDTA) or salt thereof and (2) isoascorbic acid or a salt thereof. In addition, the gloss of the dyed hair is visibly improved. Thus, a tinting lotion contained C12-18 fatty alcs. 3.00, Emulgade 1000 NI 2.00, lauric acid 3.00, Texapon N70 3.00, Dehyton K 3.00, methylparaben 0.20, propylparaben 0.20, isoascorbic acid 0.10, **Trilon** B (tetrasodium EDTA) 0.25, 2-amino-2-methylpropanol 0.70, HC Blue 2 0.70, Violet 1,4-D 0.30, HC Yellow 2 0.40, fragrance 0.30, and distilled water to 100 weight parts (pH 7).

ST hair dye amino polycarboxylate isoascorbate; EDTA isoascorbate hair dye

IT Adsorption
(agent and process for dyeing and tinting keratinous fibers)

IT Alcohols, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(amino, salts, with amino polycarboxylic acids; agent and process for dyeing and tinting keratinous fibers)

IT Hair preparations
(dyes, direct; agent and process for dyeing and tinting keratinous fibers)

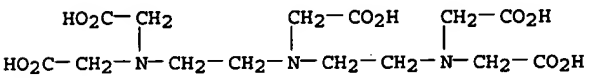
IT Amino acids, biological studies
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(polycarboxylic; agent and process for dyeing and tinting keratinous fibers)

IT 60-00-4, EDTA, biological studies 64-02-8, Tetrasodium ethylenediaminetetraacetate 67-43-6 89-65-6, Isoascorbic acid 139-13-9, Nitrilotriacetic acid 139-33-3, Disodium ethylenediaminetetraacetate 150-39-0, N-(Hydroxyethyl)ethylenediaminetri acetic acid 7379-26-2, Ammonium ethylenediaminetetraacetate

17100-11-7, **Aluminum** ethylenediaminetetraacetate 19010-73-2, **Aluminum** nitrilotriacetate 20148-50-9 32685-17-9, Ammonium nitrilotriacetate 52168-28-2, Ammonium diethylenetriaminepentaacetate 199118-17-7 199118-19-9
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(agent and process for dyeing and tinting keratinous fibers)

IT **67-43-6**
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(agent and process for dyeing and tinting keratinous fibers)

RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



L74 ANSWER 23 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1997:375233** HCAPLUS
DN 127:70599
ED Entered STN: 16 Jun 1997
TI Removal of minerals from human hair and animal keratin fibers by chelating agents
IN Said, Hayel; Said, Hian
PA L'Avante Garde, Inc., USA
SO U.S., 9 pp.
CODEN: USXXAM
DT Patent
LA English
IC ICM A61K007-06
NCL 424701000
CC 62-3 (Essential Oils and **Cosmetics**)
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5635167	A	19970603	US 1994-365594	19941228
PRAI US 1994-365594		19941228		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5635167	ICM	A61K007-06
	NCL	424701000
US 5635167	ECLA	A61K008/44; A61K008/55; A61Q005/02

OS MARPAT 127:70599
AB A process for the removal of exogenous minerals which have become attached to human hair or keratin fiber includes the steps of contacting at least one chelating agent to the human hair or keratin fiber, the chelating agent selected from the group consisting of amino acid-type, polyphosphate-type and phosphonate-type agents, maintaining contact with the chelating agent and the human hair or keratin fiber for a period of time sufficient to permit the chelating agent to complex with the exogenous minerals, thereby removing at least a portion of the attached minerals, and rinsing the chelating agent. The process is enhanced with the pH is adjusted to a range of between 4 to 9, preferably 5 to 8. The chelating agent is added at a concentration of 4% by weight to 25% by weight, preferably 5 to 20% by weight In a preferred case, the chelating agent is selected from the group consisting of a salt of EDTA, a salt of hydroxyethylethylenediaminetriacetic acid, a salt of **diethylenetriaminepentaacetic acid**, a salt of nitrilotriacetic acid and a salt of tripolyphosphate, preferably the sodium salt. The chelating agents used are preferably blends of chelating agents thereby achieve a synergistic effect. Copper-contaminated hair containing 5260 ppm Cu was treated with a solution containing Na4EDTA 2, Na3 hydroxyethylenediaminetriacetic acid 2, disodium ethanoldiglycine 1% to reduce Cu to 500 ppm. Formulations of various hair prepns. for removal of minerals from hair are disclosed.
ST hair mineral removal chelating agent
IT Hair preparations
(for removal of minerals; removal of minerals from human hair and animal keratin fibers by chelating agents)
IT Chelating agents

(removal of minerals from human hair and animal keratin fibers by chelating agents)

IT Minerals, biological studies
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
(removal of minerals from human hair and animal keratin fibers by chelating agents)

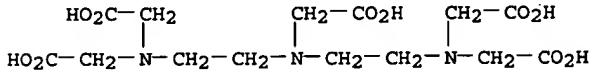
IT Amino acids, biological studies
Polyphosphates
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(removal of minerals from human hair and animal keratin fibers by chelating agents)

IT 14127-61-8, Calcium ion, biological studies 14280-50-3, Lead 2+, biological studies 15158-11-9, biological studies 15438-31-0, Ferrous ion, biological studies 20074-52-6, Ferric ion, biological studies 22537-22-0, Magnesium ion, biological studies 22537-23-1, **Aluminum** ion, biological studies 22537-48-0, Cadmium ion, biological studies 23713-49-7, Zinc ion, biological studies
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
(removal of minerals from human hair and animal keratin fibers by chelating agents)

IT 64-02-8, Tetrasodium EDTA 135-37-5 139-89-9 **140-01-2**, Pentasodium diethylenetriaminepentaacetate 5064-31-3 7758-29-4, Sodium tripolyphosphate 15477-76-6, Phosphonate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(removal of minerals from human hair and animal keratin fibers by chelating agents)

IT **140-01-2**, Pentasodium diethylenetriaminepentaacetate
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(removal of minerals from human hair and animal keratin fibers by chelating agents)

RN 140-01-2 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, pentasodium salt (8CI, 9CI) (CA INDEX NAME)



●5 Na

L74 ANSWER 24 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1995:780753** HCAPLUS
DN 123:179535
ED Entered STN: 08 Sep 1995
TI Dentifrice compositions containing **aluminum** and carboxylic acid radicals for treatment of dentin hypersensitivity
IN Nakajima, Seiji; Takahashi, Akinori; Suganuma, Nobuo; Ito, Satoshi
PA Lion Corp, Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
IC ICM A61K007-16
ICS A61K007-24
CC 63-6 (Pharmaceuticals)
Section cross-reference(s): **62**

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 07165550	A2	19950627	JP 1994-75317	19940322
JP 2550909	B2	19961106		
PRAI JP 1994-75317		19940322		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
JP 07165550	ICM	A61K007-16

ICS A61K007-24

AB The title compns. for obstructing dentin canaliculi contain Al and carboxylic acid radicals (at 1:.ltoreq.6 mol ratio) as active ingredients in the dissolved state and phosphoric acid compds. to keep the pH >5. A dentin disk was treated with an aqueous solution containing 0.5 weight% Al and lactic acid (mol. ratio to Al = 3) (by dissolving Al lactate and lactic acid) and 3.0 weight% Na tripolyphosphate (I) and passage of Ringer's solution through dentin canaliculi was reduced by 99% vs. 20% for a control solution containing no I.

ST dentin canaliculus obstruction **aluminum** carboxylate; hypersensitivity dentin inhibition dentifrice **aluminum** carboxylate

IT Dentifrices
Mouthwashes
(dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

IT Carboxylic acids, biological studies
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

IT Tooth
(disease, hyperesthesia, dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

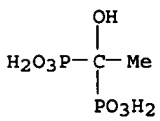
IT Polyphosphoric acids
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(sodium salts, dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

IT 57-03-4 62-76-0, Sodium oxalate 83-86-3, Phytic acid 815-78-1, **Aluminum** tartrate 1113-38-8, Ammonium oxalate 2466-09-3, Pyrophosphoric acid **2809-21-4**, Ethane-1-hydroxy-1,1-diphosphonic acid 7558-79-4, Disodium hydrogen phosphate 7558-80-7, Sodium dihydrogen phosphate 7664-38-2, Phosphoric acid, biological studies 7722-88-5 7757-93-9, Calcium hydrogen phosphate 7758-29-4, Sodium tripolyphosphate 7778-77-0, Potassium dihydrogen phosphate 10043-22-8, Potassium oxalate 10380-08-2, Tripolyphosphoric acid 14306-25-3 18694-07-0, Hexametaphosphoric acid 18917-91-4, **Aluminum** lactate 31142-56-0, **Aluminum** citrate 39951-36-5, Sodium glycerophosphate 67400-84-4, **Aluminum** malate 104469-31-0 150677-49-9
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

IT **2809-21-4**, Ethane-1-hydroxy-1,1-diphosphonic acid
RL: BUU (Biological use, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dentifrices containing Al carboxylates and phosphorus acid compds. or oxalic acid compds. for treatment of dentin hypersensitivity)

RN 2809-21-4 HCAPLUS

CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 25 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

AN **1992:557437** HCAPLUS

DN 117:157437

ED Entered STN: 17 Oct 1992

TI Improved antiplaque compositions comprising a combination of morpholinoamino alcohol and chelating agent

IN Pan, Pauline H.; Sturdivant, Linda D.

PA Warner-Lambert Co., USA

SO PCT Int. Appl., 28 pp.
CODEN: PIXXD2

DT Patent

LA English

IC ICM A61K007-16
CC 62-7 (Essential Oils and Cosmetics)
FAN.CNT 1

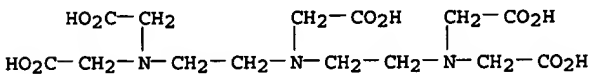
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9207548	A1	19920514	WO 1991-US6836	19910920
	W: AU, CA, FI, JP, KR, NO				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE				
	US 5147632	A	19920915	US 1990-606218	19901031
	AU 9187397	A1	19920526	AU 1991-87397	19910920
	ZA 9108639	A	19920826	ZA 1991-8639	19911030
PRAI	US 1990-606218	A	19901031		
	WO 1991-US6836	A	19910920		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9207548	ICM	A61K007-16

OS MARPAT 117:157437
AB The title composition contains a morpholinoamino alc., e.g. 3-(4-propylheptyl)-4-(2-hydroxyethyl)morpholine (I), and a chelating agent, e.g. EDTA. A mouthwash contained I.HCl 0.05, EDTA 0.20, nonionic surfactant 0.70, 70% sorbitol solution 50.0, EtOH 10.0, colors 0.0004, flavors 0.15 and water to 100%.
ST morpholinoamino alc chelator antiplaque dentifrice; EDTA morpholinoamino alc antiplaque mouthwash
IT Chelating agents
(antiplaque composition containing morpholinoamino alc. and)
IT Dentifrices
Mouthwashes
(antiplaque, morpholinoamino alc. and chelating agents in)
IT Dentifrices
(chewing gums, antiplaque, morpholinoamino alc. and chelating agents in)
IT Gingiva
(disease, gingivitis, treatment of, with antiplaque composition containing morpholinoamino alc. and chelating agents)
IT Polyphosphoric acids
RL: BIOL (Biological study)
(sodium salts, antiplaque dentifrices containing morpholinoamino alc. and)
IT 50-78-2D, Acetylsalicylic acid, salts with morpholinoamino alcs. 57-10-3D, Hexadecanoic acid, salts with morpholinoamino alcs. 57-11-4D, Stearic acid, salts with morpholinoamino alcs. 62-23-7D, p-Nitrobenzoic acid, salts with morpholinoamino alcs. 64-19-7D, Acetic acid, salts with morpholinoamino alcs. 65-85-0D, Benzoic acid, salts with morpholinoamino alcs. 67-52-7D, Barbituric acid, salts with morpholinoamino alcs. 69-72-7D, Salicylic acid, salts with morpholinoamino alcs. 87-69-4D, salts with morpholinoamino alcs. 89-86-1D, salts with morpholinoamino alcs. 110-15-6D, Succinic acid, salts with morpholinoamino alcs. 112-80-1D, Oleic acid, salts with morpholinoamino alcs. 121-57-3D, salts with morpholinoamino alcs. 143-07-7D, Lauric acid, salts with morpholinoamino alcs. 144-62-7D, Oxalic acid, salts with morpholinoamino alcs. 149-91-7D, Gallic acid, salts with morpholinoamino alcs. 544-63-8D, Myristic acid, salts with morpholinoamino alcs. 6915-15-7D, salts with morpholinoamino alcs. 7601-90-3D, Perchloric acid, salts with morpholinoamino alcs. 7647-01-0D, Hydrochloric acid, salts with morpholinoamino alcs. 7664-38-2D, Phosphoric acid, salts with morpholinoamino alcs. 10043-35-3D, Boric acid, salts with morpholinoamino alcs. 98092-92-3
RL: BIOL (Biological study)
(antiplaque composition containing chelating agents and)
IT 64-17-5, Ethanol, biological studies
RL: BIOL (Biological study)
(antiplaque composition containing chelating agents and morpholinoamino alc. and)
IT 79874-76-3
RL: BIOL (Biological study)
(antiplaque dentifrices containing chelating agents and)
IT 52-67-5, Penicillamine 60-00-4, EDTA, biological studies 62-33-9, Calcium EDTA 67-43-6, Pentetic acid 68-04-2, Sodium citrate 70-51-9 87-69-4, biological studies 112-24-3, Trientine 118-92-3, Anthranilic acid 139-33-3, Disodium EDTA 148-18-5 150-38-9, Trisodium EDTA 304-55-2 527-07-1, Sodium gluconate 7379-28-4 7429-90-5D, Aluminum, salts 7722-88-5 7758-29-4, Sodium tripolyphosphate 9003-01-4, Poly(acrylic acid) 13598-36-2D, Phosphonic acid, salts
RL: BIOL (Biological study)

(antiplaque dentifrices containing morpholinoamino alc. and)
IT 67-43-6, Pentetic acid 7429-90-5D, Aluminum, salts
RL: BIOL (Biological study)
(antiplaque dentifrices containing morpholinoamino alc. and)
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

L74 ANSWER 26 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 1990:411964 HCAPLUS
DN 113:11964
ED Entered STN: 06 Jul 1990
TI Tartar-inhibiting oral compositions containing fluoride, phosphorus-containing compounds and carboxyvinyl polymers
IN Amjad, Zahid
PA Goodrich, B. F., Co., USA
SO Eur. Pat. Appl., 20 pp.
CODEN: EPXXDW
DT Patent
LA English
IC ICM A61K007-16
CC 62-7 (Essential Oils and Cosmetics)
Section cross-reference(s): 1, 63
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI EP 341662	A2	19891115	EP 1989-108325	19890509
EP 341662	A3	19910424		
R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
US 4892724	A	19900109	US 1988-191668	19880509
AU 8934563	A1	19891109	AU 1989-34563	19890509
AU 628817	B2	19920924		
CN 1038933	A	19900124	CN 1989-104287	19890509
JP 02056414	A2	19900226	JP 1989-115948	19890509
PRAI US 1988-191668	A	19880509		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
EP 341662	ICM	A61K007-16

AB Tartar-inhibiting oral compns. contain a fluoride, a dental abrasive, and an anticalculus agent which is a mixture of .gtoreq.1 P-containing compound and .gtoreq.1 carboxylic polymer. Data are given showing that mixts. of a P-containing compound and a polymer exhibit synergistic results in terms of hydroxyapatite inhibition. Polymers which showed superior synergism included acrylic acid-methacrylic acid-tert-butylacrylamide polymer, 2-acrylamidomethylpropanesulfonic acid-acrylic acid polymer and poly(maleic acid). Superior P-containing compds. included aminotri(methylenephosphonic acid), hydroxyethane-1,1-diphosphonic acid, and 2-phosphonobutane-1,2,4-tricarboxylic acid.
ST tartar inhibitor oral; phosphorus compd tartar inhibitor compn; carboxyvinyl polymer tartar inhibitor compn; calculus inhibition phosphorus compd polymer
IT Acrylic polymers, biological studies
RL: BIOL (Biological study)
(oral compns. containing phosphorus-containing compds. and, tartar-inhibiting)
IT Dentifrices
(tartar-inhibiting, phosphorus-containing compds. and carboxyvinyl polymers in)
IT Tooth
(disease, calculus, inhibitors, oral compns. containing carboxyvinyl polymers and phosphorus compds. as)

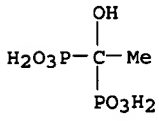
IT **2809-21-4** 6419-19-8, Aminotri(methylene phosphonic acid)
7723-14-0D, Phosphorus, compds. 37971-36-1, 2-Phosphonobutane-1,2,4-tricarboxylic acid
RL: BIOL (Biological study)
(oral compns. containing carboxyvinyl polymers and, for tartar and hydroxyapatite formation inhibition)

IT 9003-01-4, Polyacrylic acid 26099-09-2, Polymaleic acid 39373-34-7, Acrylic acid-hydroxypropylacrylate copolymer 40623-75-4, Acrylic acid-2-acrylamido-2-methylpropanesulfonic acid copolymer 62152-03-8, Acrylic acid-2-sulfoethylmethacrylate copolymer 97222-49-6, Acrylic acid-dimethyl itaconate copolymer 107532-52-5 109973-46-8, Acrylic acid-tert-butylacrylamide-methacrylic acid polymer 115635-04-6 126816-65-7
RL: BIOL (Biological study)
(oral compns. containing phosphorus compds. and, for tartar and hydroxyapatite formation inhibition)

IT 7631-86-9, Silica, biological studies 7681-49-4, Sodium fluoride, biological studies 7783-47-3, Stannous fluoride 10163-15-2, Sodium monofluorophosphate 16984-48-8, Fluoride, biological studies 21645-51-2, **Aluminum** hydroxide, biological studies
RL: BIOL (Biological study)
(oral compns. containing, tartar-inhibiting)

IT **2809-21-4**
RL: BIOL (Biological study)
(oral compns. containing carboxyvinyl polymers and, for tartar and hydroxyapatite formation inhibition)

RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L74 ANSWER 27 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1985:583397** HCAPLUS
DN 103:183397
ED Entered STN: 30 Nov 1985
TI Toothpaste containing thickening and antinucleating agents
IN De Vries, Marijke S.
PA Colgate-Palmolive Co., USA
SO Ger. Offen., 21 pp.
CODEN: GWXXBX
DT Patent
LA German
IC ICM A61K007-16
CC 62-7 (Essential Oils and **Cosmetics**)
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3445855	A1	19850711	DE 1984-3445855	19841215
	US 4569838	A	19860211	US 1984-670385	19841114
	SE 8406184	A	19850624	SE 1984-6184	19841206
	SE 457603	B	19890116		
	SE 457603	C	19890615		
	ZA 8409647	A	19860730	ZA 1984-9647	19841211
	AU 8436688	A1	19850627	AU 1984-36688	19841214
	AU 562649	B2	19870618		
	DK 8406044	A	19850624	DK 1984-6044	19841217
	FR 2556961	A1	19850628	FR 1984-19285	19841217
	FR 2556961	B1	19880624		
	FI 8404993	A	19850624	FI 1984-4993	19841218
	FI 77777	B	19890131		
	FI 77777	C	19890510		
	BR 8406561	A	19851015	BR 1984-6561	19841219
	AT 8404021	A	19881115	AT 1984-4021	19841219
	AT 388292	B	19890526		
	CH 662054	A	19870915	CH 1984-6156	19841220
	BE 901362	A1	19850621	BE 1984-214221	19841221
	NO 8405197	A	19850624	NO 1984-5197	19841221
	NO 164513	B	19900709		
	NO 164513	C	19901017		

	NL 8403895	A	19850716	NL 1984-3895	19841221
	GB 2151922	A1	19850731	GB 1984-32394	19841221
	GB 2151922	B2	19870624		
	CA 1245562	A1	19881129	CA 1984-470824	19841221
	JP 60178808	A2	19850912	JP 1984-272723	19841224
PRAI	US 1983-564965	A	19831223		
	US 1984-670385	A	19841114		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 3445855	ICM	A61K007-16

AB Toothpastes with good rheol. properties contain mixed thickening agents 0.5-5, aqueous humectants 20-80, polishing agents 10-50, and antinucleating agents 0.1-10%. The mixed thickening agents with a yield point viscosity of 3000-50,000 dyne/cm2 consist of .iota.-carrageenan [9062-07-1] and xanthan gum [11138-66-2] in a ratio of 1:7.5 to 1:1.5. The polishing agents consist of alkali aluminosilicates and the antinucleating agents consist of phosphonic acid derivs. containing .gtoreq.1 phosphonic group, e.g., ethylenediaminetetramethylenetetraphosphonic acid (I) [1429-50-1]. The toothpaste can be used in a flexible tube, a mech. or pressure-differential dispenser. Thus, a toothpaste contained glycerin 25.0, xanthan gum 1.1, .iota.-carrageenan 0.2, Na saccharin 0.2, NaOBz 0.5, TiO2 0.4, NaF 0.22, I Na salt [22036-77-7] 2.75, 1% Al2O3-silicic acid 27.0, Na lauryl sulfate 1.50, flavoring agent 1.0, and H2O 40.13 parts. The resulting toothpaste was delivered with creamy consistency from a dispenser. After 1 wk it showed a compressive yield point viscosity of 3400 dyne/cm2.

ST toothpaste antinucleating agent; thickener toothpaste; polishing agent toothpaste

IT Dentifrices
(antinucleating and polishing and thickening agents for)

IT Thickening agents
(for toothpastes)

IT Chelating agents
(phosphonates, toothpaste containing)

IT Aluminosilicates, biological studies
RL: BIOL (Biological study)
(toothpaste containing)

IT **1429-50-1** 9062-07-1 11138-66-2 22036-77-7
RL: BIOL (Biological study)
(toothpaste containing)

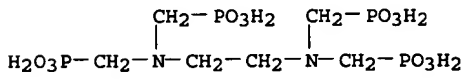
IT 1343-98-2
RL: BIOL (Biological study)
(toothpaste containing **aluminum** oxide and)

IT 1344-28-1, biological studies
RL: BIOL (Biological study)
(toothpaste containing silicic acid and)

IT **1429-50-1**
RL: BIOL (Biological study)
(toothpaste containing)

RN 1429-50-1 HCAPLUS

CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



L74 ANSWER 28 OF 28 HCAPLUS COPYRIGHT 2004 ACS on STN

AN **1974:558616** HCAPLUS

DN 81:158616

ED Entered STN: 12 May 1984

TI Dandruff control preparations

IN Busch, Peter; Giede, Karl

PA Henkel und Cie. G.m.b.H.

SO Ger. Offen., 12 pp.
CODEN: GWXXBX

DT Patent

LA German

IC A61K

CC 62-3 (Essential Oils and **Cosmetics**)

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

PI	DE 2262375	A1	19740627	DE 1972-2262375	19721220
	DE 2262375	B2	19760819		
PRAI	DE 1972-2262375	A	19721220		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
DE 2262375	IC	A61K

AB Hair prepns. of pH 6.5-7.0, e.g. shampoos, lotions, or setting compns. with antidandruff activity contained Zn or Zr pyrithione(I), an amine, and a complex-forming agent binding >230 mg CaCO3/g in addition to conventional components. Thus, a setting agent contained Luviskol VA 37 I 4, isopropyl alc. 37, perfume oil 0.1, Eumulgin 286 0.3, Genamin KS 5 0.3, Polydiol 400 0.2, Uvinul 0.05, I 1.0, polyethylenimine (mol. weight 1200) 3, nitrilotriacetic acid 2.5, and H2O balance to 100%.

ST dandruff shampoo zinc pyrithione; hair prepn dandruff; **zirconium** pyrithione dandruff

IT Hair
(antidandruff prepns. for, pyrithiones in)

IT Shampoos
(antidandruff, containing pyrithiones)

IT Dandruff
(control of, pyrithione prepns. for)

IT **12390-74-8** 13463-41-7
RL: BIOL (Biological study)
(in antidandruff prepns.)

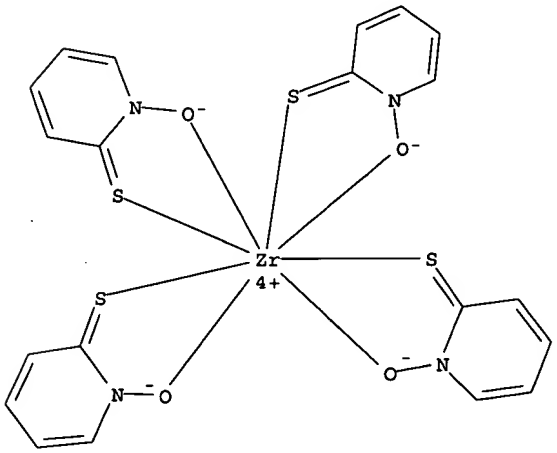
IT 60-00-4, uses and miscellaneous 139-13-9 **2809-21-4**
RL: BIOL (Biological study)
(in pyrithione antidandruff prepns.)

IT 929-06-6 9002-98-6
RL: BIOL (Biological study)
(solvents, for pyrithione antidandruff prepns.)

IT **12390-74-8**
RL: BIOL (Biological study)
(in antidandruff prepns.)

RN 12390-74-8 HCAPLUS

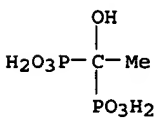
CN Zirconium, tetrakis[1-(hydroxy-.kappa.O)-2(1H)-pyridinethionato-.kappa.S2]-(9CI) (CA INDEX NAME)



IT **2809-21-4**
RL: BIOL (Biological study)
(in pyrithione antidandruff prepns.)

RN 2809-21-4 HCAPLUS

CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



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               E UK2000-1130/AP,PRN
               E GB2000-1130/AP,PRN
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               E GB2000-1131/AP,PRN
L3             1 GB2000-1131/AP,PRN
L4             1 L1-3

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     FILE 'HCAPLUS' ENTERED AT 09:17:40 ON 28 DEC 2004
L5               TRA L4 1- RN :        8 TERMS

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L6             8 SEA L5

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               E GB2000-1130/AP,PRN
L8             1 GB2000-1130/AP,PRN
L9             1 GB2000-1131/AP,PRN
L10            1 L7-9

     FILE 'REGISTRY' ENTERED AT 09:34:04 ON 28 DEC 2004
L11            1 ALUMINUM/CN
L12            1 ZIRCONIUM/CN
L13              QUE (PMS OR MAN OR IDS)/CI OR COMPD OR COMPOUND OR UNSPECIFIED
L14            2 C18H30N4O12 AND TTHA NOT L13
L15           10 C14H23N3O10 AND (DTPA OR DETPA) NOT L13
L16            9 L15 NOT (NC=4 OR AMMONIUM (1A) HYDROGEN (1A) CARBONATE)
L17            7 L16 NOT 4 (1A) AMINOBENZOATE
               E DTPMP/CN
L18            1 DTPMP/CN
               E EDHP/CN
               E EDTMP/CN
L20            1 EDTMP/CN
L21            1 C6H20N2O12P4 AND EDTMP
               E EDDS/CN
               E EDDHA/CN
L22            1 EDDHA/CN
L23            2 C18H20N2O6 AND EDDHA
L24           42 C10H28N2O12P4
L25           38 L24 AND PHOSPHONIC (1A) ACID
L26           27 L25 AND HEXANEDIYL
L27           23 L26 NOT (L13 OR MXS/CI)
L28            4 L26 NOT L27
L29         7066 C2H8N2
L30           71 L29 NOT L13 AND ETHYLENEDIAMINE
L31          478 C2H8O7P2
L32          347 L31 NOT L13
L33          333 L32 AND PHOSPHONIC (1A) ACID
L34            3 L33 AND ETHAN
               SEL RN 2-3
L35            2 E1-2 AND L34
L36          316 L33 AND HYDROXYETHYL
L37          316 L35-36

     FILE 'HCAPLUS' ENTERED AT 11:20:25 ON 28 DEC 2004
L38              QUE L11 OR ALUMINUM OR ALCOA OR ALCAN OR ALPASTE OR ALUMIPASTE
L39              QUE L12 OR ZIRCONIUM OR ZR
L40              QUE L14 OR L17 OR L19 OR L37 OR L21 OR L22
L41          516 TTHA OR CHELEST OR CLEWAT OR TRIETHYLENETETRAAMINEHEXACETIC (1A
L42        10320 ETHYLENEBIS (3A)CARBOXYMETHYL (1A) IMINO (1A) EHTYLENENITRILO (
L43          707 DIETHYLENETRIAMINE (5A) PENTAACETIC (1A) ACID
L44         8510 (DIETHYLENETRIAMINEPENTAKIS (1A)ACETIC OR PENTETIC) (1A) ACID O
L45         1384 CIX OR CUBLEN OR DEQUEST OR DIETHYLTRIAMINE (5A) (PENTA OR PENT

     FILE 'REGISTRY' ENTERED AT 11:39:02 ON 28 DEC 2004
L46       326849 AL/ELS
L47       135421 ZR/ELS
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L48              QUE L47
L49          457 EDITEMPA OR EDPA OR EDTF OR EDTMP OR EDTMPA OR EDTPA OR EDTPN O
L50           15 TETRAKIS (1A) PHOSPHONOMETHYL (1A) ETHYLENEDIAMINE OR ETHYLENEB
L51          931 CHEL OR DISSOLVINE OR EDBPHA OR EDDHA OR EDHPA OR ETHYLENE? (1A
                 E DEODOR/CT
                 E E9+ALL
L52         8238 DEODORANTS+NT/CT
                 E COATING MATERIALS/CT
                 E E3+ALL
L53          317 COATING MATERIALS+OLD,NT/CT (L) (DEODOR? OR DEODOUR?)
                 E DEODOR/CT
                 E E9+ALL
                 E E18+ALL
L54          510 AIR FRESHENERS/CT
                 E E7+ALL
L55        25724 "ODOR AND ODOROUS SUBSTANCES"+OLD,NT/CT
                 E E17
                 E E3+ALL
L56         5609 DEODORIZATION/CT
L57         1356 (L38 OR L39 OR L48) AND L52-56
L58           10 L57 AND (L40 OR L41 OR L42 OR L43 OR L44 OR L45 OR L49 OR L50 O
                 E LANDA A/AU
L59           35 E3,E10
                 E LANDA ANDREW/AU
L60            8 E4-5
                 E MAKIN S/AU
L61           10 E4,E11-12
                 E MCKAY V/AU
L62            3 E3,E6
                 E MC KAY V/AU
L63        10998 UNILEVER/CS,PA
L64            2 L58 AND L59-63
L65            8 L58 NOT L64
                 SEL AN 1 3-8
L66            7 E1-14 AND L65
L67         4577 (L38 OR L39 OR L48) AND COSMET?/CC,SX
L68           33 L67 AND (L40 OR L41 OR L42 OR L43 OR L44 OR L45 OR L49 OR L50 O
L69            3 L68 AND L59-63
L70            3 L64 OR L69
L71           30 L68 NOT L70
L72           26 L71 NOT L65
                 SEL AN 1-21
L73           21 E15-55 AND L72
L74           28 L66 OR L73
L75         1913 (L38 OR L39 OR L48) AND (L40 OR L41 OR L42 OR L43 OR L44 OR L45
L76         1704 L75 AND (PY<=2000 OR AY<=2000 OR PRY<=2000)
L77          411 L76 AND P/DT
L78          186 L77 AND US/PC
L79           52 L77 AND US/PC.B
                 SEL AN L79 2 6 13 30 32
L80            5 E56-65 AND L79

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FILE COVERS 1907 - 28 Dec 2004  VOL 142 ISS 1
FILE LAST UPDATED: 24 Dec 2004  (20041224/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.
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=> d all l80 tot

L80  ANSWER 1 OF 5  HCAPLUS  COPYRIGHT 2004 ACS on STN
AN   2003:912824  HCAPLUS
DN   140:9216
ED   Entered STN:  21 Nov 2003
TI   Regeneration of spent supported metal catalysts
IN   Zhou, Bing; Rueter, Michael
PA   USA
SO   U.S. Pat. Appl. Publ., 8 pp., Cont.-in-part of U.S. Ser. No. 745,510.
     CODEN: USXXCO
DT   Patent
LA   English
IC   ICM  B01J038-50
NCL  502022000; 502029000
CC   67-4 (Catalysis, Reaction Kinetics, and Inorganic Reaction Mechanisms)
     Section cross-reference(s): 49, 78
FAN.CNT 2
     PATENT NO.           KIND   DATE        APPLICATION NO.        DATE
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PI   US 2003216245         A1    20031120    US 2002-326042         20021220 <--
     US 2002115554         A1    20020822    US 2000-745510         20001222 <--
     US 6740615            B2    20040525
     WO 2004060553         A1    20040722    WO 2003-US9216         20030325
         W:  AT, CA, CN, IN, JP, MX
         RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
             IT, LU, MC, NL, PT, RO, SE, SI, SK, TR
PRAI US 2000-745510        A2    20001222  <--
     US 2002-326042        A     20021220
CLASS
 PATENT NO.       CLASS  PATENT FAMILY CLASSIFICATION CODES
 --------------   -----  ----------------------------------------------
 US 2003216245    ICM    B01J038-50
                  NCL    502022000; 502029000
 US 2002115554    ECLA   G02C007/04C                                    <--
AB   A method for regenerating spent supported metal catalysts comprising
     treating the spent catalyst with an organo-metallic complex forming agent
     having an ionization constant pK 1 of at least 2.5.  The catalyst activity
     is restored to an activity level near to or greater than the fresh
     catalyst.  The regeneration method is particularly useful for regenerating
     spent palladium catalysts on an alumina support as utilized for the
     hydrogenation of Et anthraquinone (EAQ) in the production of hydrogen
     peroxide.
ST   regeneration spent supported metal catalyst; palladium alumina catalyst
     regeneration hydrogenation ethyl anthraquinone; hydrogen peroxide prodn
     palladium alumina catalyst regeneration
IT   Amines, processes
     Amino acids, processes
     Mannich bases
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (aliphatic and aromatic; regeneration of spent supported metal catalysts)
IT   Polybenzimidazoles
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (chelating agent; regeneration of spent supported metal catalysts)
IT   Carboxylic acids, processes
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (monobasic, dibasic, aliphatic or aromatic, chelating agent; regeneration of
        spent supported metal catalysts)
IT   Polycarbonates, processes
     RL: CPS (Chemical process); PEP (Physical, engineering or chemical
     process); PROC (Process)
        (polybiphenol, chelating agent; regeneration of spent supported metal
        catalysts)
IT   Catalysts
     Chelating agents
     Complexing agents
        (regeneration of spent supported metal catalysts)
IT   Alkali metals, uses
     Alkaline earth metals
     Alloys, uses
     Bentonite, uses
     Carbon black, uses
```

Clays, uses
Diatomite
Group IIIA elements
Group VA elements
Main group elements
Metals, uses
Noble metals
Nonmetals
Polymers, uses
Semimetals
Transition metals, uses
Zeolites (synthetic), uses
RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(regeneration of spent supported metal catalysts)

IT Organometallic compounds
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(regeneration of spent supported metal catalysts)

IT Carboxylic acids, processes
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(tricarboxylic acids, aliphatic or aromatic, chelating agent; regeneration of spent supported metal catalysts)

IT 7440-44-0, Activated carbon, uses
RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(activated and fluoridated; regeneration of spent supported metal catalysts)

IT 56-40-6, Glycine, processes 56-40-6D, Glycine, salts **67-43-6**, **Diethylenetriamine pentaacetic acid** **67-43-6D**, **Diethylenetriamine pentaacetic acid**, salts 69-72-7, Salicylic acid, processes 69-72-7D, Salicylic acid, salts 77-92-9, Citric acid, processes 77-92-9D, Citric acid, salts 78-90-0, Propylenediamine 78-90-0D, Propylenediamine, salts 79-14-1, Glycolic acid, processes 79-14-1D, Glycolic acid, salts 87-69-4, Tartaric acid, processes 87-69-4D, Tartaric acid, salts 107-15-3, Ethylenediamine, processes 107-15-3D, Ethylenediamine, salts 110-15-6, Succinic acid, processes 110-15-6D, Succinic acid, salts 110-94-1, Glutaric acid 110-94-1D, Glutaric acid, salts 111-40-0, Diethylenetriamine 111-40-0D, Diethylenetriamine, salts 112-24-3 112-24-3D, salts 118-92-3, 2-Aminobenzoic acid 118-92-3D, 2-Aminobenzoic acid, salts 121-91-5, Isophthalic acid, processes 121-91-5D, Isophthalic acid, salts 141-82-2, Malonic acid, processes 141-82-2D, Malonic acid, salts 150-39-0, N-(Hydroxyethyl)ethylenediamine triacetic acid 150-39-0D, N-(Hydroxyethyl)ethylenediaminetriacetic acid, salts 6419-19-8, Amino tri(methylenephosphonic acid) 9003-01-4D, Polyacrylic acid, derivs. 9003-39-8, Polyvinylpyrrolidone 15477-76-6, Phosphonate **15827-60-8** **15827-60-8D**, salts 24991-32-0, Polyvinylbenzoate 25013-01-8, Polypyridine 25087-26-7D, Polymethacrylic acid, derivs. 25191-25-7, Polyvinylsulfate 26101-52-0
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(chelating agent; regeneration of spent supported metal catalysts)

IT 50674-60-7, Ethyl anthraquinone
RL: RCT (Reactant); RACT (Reactant or reagent)
(hydrogenation of; regeneration of spent supported metal catalysts)

IT 1309-48-4, Magnesia, uses **1314-23-4**, Zirconia, uses 1344-28-1, Alumina, uses **7429-90-5**, **Aluminum**, uses 7439-88-5, Iridium, uses 7439-89-6, Iron, uses 7439-91-0, Lanthanum, uses 7439-92-1, Lead, uses 7439-93-2, Lithium, uses 7439-95-4, Magnesium, uses 7439-96-5, Manganese, uses 7439-98-7, Molybdenum, uses 7440-02-0, Nickel, uses 7440-04-2, Osmium, uses 7440-05-3, Palladium, uses 7440-06-4, Platinum, uses 7440-09-7, Potassium, uses 7440-15-5, Rhenium, uses 7440-16-6, Rhodium, uses 7440-18-8, Ruthenium, uses 7440-20-2, Scandium, uses 7440-21-3, Silicon, uses 7440-22-4, Silver, uses 7440-23-5, Sodium, uses 7440-31-5, Tin, uses 7440-32-6, Titanium, uses 7440-33-7, Tungsten, uses 7440-36-0, Antimony, uses 7440-38-2, Arsenic, uses 7440-41-7, Beryllium, uses 7440-42-8, Boron, uses 7440-45-1, Cerium, uses 7440-47-3, Chromium, uses 7440-48-4, Cobalt, uses 7440-50-8, Copper, uses 7440-55-3, Gallium, uses 7440-56-4, Germanium, uses 7440-57-5, Gold, uses 7440-62-2, Vanadium, uses 7440-66-6, Zinc, uses 7440-69-9, Bismuth, uses 7440-70-2, Calcium, uses 7440-74-6, Indium, uses 7553-56-2, Iodine, uses 7631-86-9, Silica, uses 7704-34-9, Sulfur, uses 7723-14-0, Phosphorus, uses 7726-95-6, Bromine, uses 7727-37-9, Nitrogen, uses 7782-41-4,

Fluorine, uses 7782-42-5, Graphite, uses 7782-44-7, Oxygen, uses 7782-49-2, Selenium, uses 7782-50-5, Chlorine, uses 13463-67-7, Titania, uses 13494-80-9, Tellurium, uses
RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(regeneration of spent supported metal catalysts)

IT 7722-84-1P, Hydrogen peroxide, preparation
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(regeneration of spent supported metal catalysts)

L80 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **2002:941799** HCAPLUS
DN 138:28597
ED Entered STN: 12 Dec 2002
TI Method for processing returns from oil and gas wells that have been treated with introduced fluids
IN Lin, Huei-Nan; Martin, Rodney Davis; Brown, James M.; Brock, Gene F.; Perkins, Randall J.
PA BJ Services Company, USA
SO U.S., 14 pp., Cont.-in-part of Ser. No. US 1997-984939, filed on 4 Dec 1997, now
CODEN: USXXAM
DT **Patent**
LA English
IC ICM C02F009-00
NCL 210666000; 210668000; 210669000; 210693000; 210708000; 210747000
CC 60-3 (Waste Treatment and Disposal)
Section cross-reference(s): 51
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 6491824	B1	20021210	US 1998-207786	19981209	<--
	US 6132619	A	20001017	US 1997-984939	19971204	<--
PRAI	US 1996-32778P	P	19961205	<--		
	US 1997-984939	A2	19971204	<--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 6491824	ICM	C02F009-00	
	NCL	210666000; 210668000; 210669000; 210693000; 210708000; 210747000	
US 6491824	ECLA	B01D017/00+/02F+/04J+/08B	<--
US 6132619	ECLA	B01D017/00+/02F+/04J+/08B	<--

AB A method for resolving sludge/emulsion formed as a result of adding introduced fluids to oil and gas wells. The method comprises adding a water-dispersible emulsion breaker and/or adjunct additives that may include iron-control chems., scale-control chems., or paraffin-control chems. or combinations thereof in amts. sufficient to sep. the sludge/emulsion into an oil phase and a water phase and to control iron, scale, or paraffin in the oil phase. Further treatment of water phase includes treatment with water clarifiers, allowing the water phase to remain in settling vessels, and passing the water phase through a macroreticular resin resulting in water that is environmentally acceptable for disposal.

ST oil gas well returns treatment iron scale paraffin control; thioglycolic acid iron control returns treatment; dodecylbenzylsulfonic acid sodium xylenesulfonate emulsion breaker returns treatment; polyacrylic acid returns clarification macroreticular resin filtration

IT Well treatment fluids
(Method for processing returns from oil and gas wells that have been treated with introduced fluids)

IT Esters, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(alkyl; paraffin-control chemical; method for processing returns from oil and gas wells that have been treated with introduced fluids)

IT Alcohols, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(amino, water clarifier; method for processing returns from oil and gas wells that have been treated with introduced fluids)

IT Surfactants
(anionic cationic and nonionic; emulsion breaker; method for processing returns from oil and gas wells that have been treated with introduced fluids)

IT Polyamines
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(as water clarifier; phosphonic acid derivs. as scale inhibitor; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Chemistry
(chemical compds., epoxylated and propoxylated; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Wastewater treatment
(clarification; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Polymers, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(co-, containing phosphinol group; scale inhibitor; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Polyoxyalkylenes, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(copolymers containing; paraffin-control chemical; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Membrane filters
(cotton or synthetic cloth; for prefiltration; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Emulsions
(demulsifiers; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Epoxy resins, processes
Phenolic resins, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(emulsion breaker; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Wastewater treatment
(filtration; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Chelating agents
(iron-control chems.; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Drilling fluids
Scale inhibitors
(method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT Scale (deposits)
(prevention; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 68585-97-7, Dodecylbenzylsulfonic acid
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(emulsion breaker and/or paraffin-control agent; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 1300-72-7, Sodium Xylenesulfonate
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(emulsion breaker; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 68-11-1, Thioglycolic acid, processes 139-13-9D, Nitrilotriacetic acid, sodium or potassium salts 139-33-3 150-39-0D, HEDTA, sodium or potassium salts 7631-90-5, Sodium bisulfite 7773-03-7, Potassium bisulfite. 10192-30-0, Ammonium bisulfite 53404-51-6, Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, monopotassium salt
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(iron-control agent; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 15181-46-1D, Bisulfite, salts
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); RCT (Reactant); PROC (Process); RACT (Reactant or reagent)
(iron-reducing agent; method for processing returns from oil and gas wells that have been treated with introduced fluids)

Search done by Noble Jarrell

IT 9060-05-3, Amberlite XAD-2
RL: NUU (Other use, unclassified); USES (Uses)
(macroreticular filter resin; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 14265-44-2D, Phosphate, esters
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(organic; scale inhibitor; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 100-87-8D, Benzenemethanesulfonic acid, dialkyl derivs. 9011-13-6, Styrene maleic anhydride copolymer 10344-93-1D, Acrylate, alkyl derivs. 18358-13-9D, Methacrylate, alkyl derivs. 24937-78-8 28679-05-2D, Eicosanol, polyacrylic esters
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(paraffin-control chemical; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 2809-21-4 6419-19-8, Aminotri(methylenephosphonic) acid 37971-36-1, Phosphonobutanetricarboxylic acid
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(scale inhibitor; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 15477-76-6D, Phosphonate, organic compds.
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(scale inhibitors; method for processing returns from oil and gas wells that have been treated with introduced fluids)
IT 79-06-1D, Acrylamide, polymers 79-10-7D, Acrylic acid, polymers 1327-41-9, Aluminum chlorohydrate 7398-69-8, Diallyldimethylammonium chloride 7446-70-0, Aluminum chloride, processes 9003-01-4, Polyacrylic acid 10043-01-3, Alum 19045-66-0, Carbamothioic acid
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(water clarifier; method for processing returns from oil and gas wells that have been treated with introduced fluids)
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Angbo, L; Water Supply 1991, V9, P87 HCAPLUS
(2) Anon; EP 0432787 A1 1991 HCAPLUS
(3) Anon; EP 901241604 1991
(4) Anon; Summary Bulletin Amberlite Polymeric Adsorbents, Rohm and Haas Company Technical Bulletin Fluid Process Chemicals 1978, P1
(5) Bache, D; Water Supply 1991, V9, P93 HCAPLUS
(6) Bellos; US 4818410 A 1989 HCAPLUS
(7) Brezinski; US 5674817 A 1997 HCAPLUS
(8) Chen, A; SPE Production Engineering 1991, P131 HCAPLUS
(9) Durham; US 4855060 A 1989 HCAPLUS
(10) Gay; US 5021164 A 1991 HCAPLUS
(11) Gutkowski, B; Environment Protection Engineering 1988, V14(3-4) HCAPLUS
(12) Ho, S; A New Membrane Process for Recovering Organics From Aqueous Wastes
(13) Holsen, T; Environment Science Technology 1991, V25(9), P1585 HCAPLUS
(14) Hudgins, C; JPT 1992, P604 HCAPLUS
(15) Kim, P; Journal AWWA 1991, P61 HCAPLUS
(16) Lin; US 6132619 A 2000 HCAPLUS
(17) Luxemburg; US 4451377 A 1984 HCAPLUS
(18) Means; US 5104545 A 1992 HCAPLUS
(19) Ohlsen, J; Dissolved Organics Removal 1990
(20) Petroleum Extension Service; Treating Oil Field Emulsions, Chapter XI Testing Procedures (Third Edition) 1974
(21) Rohm And Haas Company; Amberlite XAD-4-Product Description 1993
(22) Ruebush; US 4839054 A 1989 HCAPLUS
(23) Simpson, R; Presented at the Third Symposium of the Institute of Advanced Sanitation Research International on Thursday 1972
(24) Stephenson, M; JPT 1992, P548 HCAPLUS
(25) Tugtepe, M; The Use Of Organosilicon Polymers In Coagulation And Contact Flocculation-Filtration 1989
(26) Vinson; US 5445221 A 1995 HCAPLUS
(27) Webb, C; The Chemical Engineer 1991, P19 HCAPLUS
(28) Yadav, B; Indian Journal Environmental Protection 1990, V10(11), P820 HCAPLUS

L80 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
AN 2001:593292 HCAPLUS
DN 135:164175

ED Entered STN: 16 Aug 2001
TI Metal polychelants for diagnostic imaging
IN Sieving, Paul F.; Watson, Alan David; Quay, Steven C.; Rocklage, Scott Michael
PA Salutar, Inc., USA
SO U.S., 13 pp., Cont.-in-part of U.S. 5,554,748.
CODEN: USXXAM
DT Patent
LA English
IC ICM C07K001-00
NCL 530402000
CC 8-9 (Radiation Biochemistry)
Section cross-reference(s): 63

FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 6274713	B1	20010814	US 1995-473573	19950607	<--
	US 5554748	A	19960910	US 1993-175989	19931230	<--
PRAI	US 1989-335162	B2	19890407	<--		
	US 1993-175989	A2	19931230	<--		
	US 1990-464865	A3	19900116	<--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 6274713	ICM	C07K001-00	
	NCL	530402000	
US 6274713	ECLA	A61K047/48R2T; A61K049/08Z; A61K049/12; A61K051/06Z; C08G069/48	<--
US 5554748	ECLA	A61K047/48K6; A61K049/00B6P; A61K049/00B10; A61K051/06Z; C08G069/48	<--

OS MARPAT 135:164175
AB Invention is directed to polychelants and their metal chelates which are useful in diagnostic imaging and nuclear medicine. The polychelants comprise a plurality of macrocyclic chelant moieties, e.g., DOTA residues, conjugated by thiourea, urea or glycinamide linkages to a backbone moiety through a donor atom. For example, DOTA was reacted with tetramethylguanidine and iso-Bu chloroformate to give DOTA carboxycarbonic anhydride, which upon treatment with mono-BOC-ethylenediamine yielded DOTA-N-(2-aminoethyl)amide. This was activated with thiophosgene, coupled with poly(L-lysine), and converted into a Gd complex. The Gd polychelate obtained was coupled to activated human serum albumin for use in diagnosis.
ST polychelate metal prepn radiotherapy diagnosis imaging; polylysine metal chelate diagnosis imaging
IT Imaging agents
(NMR; polychelants for radiotherapy and diagnostic imaging)
IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(SU (surface), erythrocyte; polychelants for radiotherapy and diagnostic imaging)
IT Functional groups
(alkoxycarbonyl groups; polychelants for radiotherapy and diagnostic imaging)
IT Carbohydrates, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(amino sugars; polychelants for radiotherapy and diagnostic imaging)
IT Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(antibodies specific for; polychelants for radiotherapy and diagnostic imaging)
IT Rare earth metals, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(complexes with polychelates, conjugates with biomols.; polychelants for radiotherapy and diagnostic imaging)
IT Albumins, biological studies
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates, with metal polychelates; polychelants for radiotherapy and diagnostic imaging)
IT Chelates
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(conjugates; polychelants for radiotherapy and diagnostic imaging)
IT Coordination compounds
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cryptates; polychelants for radiotherapy and diagnostic imaging)

IT Polyamides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(dendrimers; polychelants for radiotherapy and diagnostic imaging)
IT Fibrins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(fragments, polymerized; polychelants for radiotherapy and diagnostic imaging)
IT Functional groups
(isothiocyanato group; polychelants for radiotherapy and diagnostic imaging)
IT Lipoproteins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(low-d., precursor; polychelants for radiotherapy and diagnostic imaging)
IT Heterocyclic compounds
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(macrocyclic, nitrogen; polychelants for radiotherapy and diagnostic imaging)
IT Liver
(macromols. specific for; polychelants for radiotherapy and diagnostic imaging)
IT Functional groups
(maleimide; polychelants for radiotherapy and diagnostic imaging)
IT Antibodies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(monoclonal, conjugates; polychelants for radiotherapy and diagnostic imaging)
IT Chelating agents
(pharmaceutical; polychelants for radiotherapy and diagnostic imaging)
IT Dendritic polymers
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polyamides; polychelants for radiotherapy and diagnostic imaging)
IT Amide group
Animal cell
Animal tissue
Blood vessel, disease
Diagnosis
Disulfide group
Drug delivery systems
Drug targeting
Imaging agents
Organ, animal
Radiotherapy
(polychelants for radiotherapy and diagnostic imaging)
IT Chelates
RL: RCT (Reactant); RACT (Reactant or reagent)
(polychelants for radiotherapy and diagnostic imaging)
IT Antibodies
RL: RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
(polychelants for radiotherapy and diagnostic imaging)
IT Amyloid precursor proteins
Crown ethers
Fibrinogens
Macrocyclic compounds
Proteins, general, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polychelants for radiotherapy and diagnostic imaging)
IT Proteins, specific or class
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(receptor-binding proteins; polychelants for radiotherapy and diagnostic imaging)
IT Albumins, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(serum; polychelants for radiotherapy and diagnostic imaging)
IT Erythrocyte
(surface proteins; polychelants for radiotherapy and diagnostic imaging)
IT Functional groups
(thiourea; polychelants for radiotherapy and diagnostic imaging)
IT 64987-85-5, SMCC
RL: RCT (Reactant); RACT (Reactant or reagent)
(gadolinium polychelates activation by; polychelants for radiotherapy and diagnostic imaging)
IT 80-70-6 107-15-3, Ethylene diamine, reactions 463-71-8, Thiophosgene 543-27-1, Isobutylchloroformate 9011-14-7, Poly(methyl methacrylate)

22118-09-8, Bromoacetyl chloride 25104-18-1, Poly(L-lysine) 30551-89-4, Poly(allylamine) 38000-06-5, Poly(L-lysine) 56491-86-2, NOTA 57260-73-8, mono-BOC-ethylenediamine 60239-18-1, DOTA 60239-22-7, TETA 64189-50-0D, Sarcophagine, derivs. 112193-74-5, OTTA 149440-35-7, DO3A
RL: RCT (Reactant); RACT (Reactant or reagent)
(polychelants for radiotherapy and diagnostic imaging)

IT **67-43-6DP, DTPA**, reaction with polylysine, complexes with gadolinium, conjugates with serum albumin 25104-18-1DP, reaction with DOTA and **DTPA** 60239-18-1DP, DOTA, reaction with polylysine, complexes with gadolinium, conjugates with serum albumin 124098-81-3P 134246-35-8P 134314-84-4P 134314-85-5P 134314-87-7P 354153-84-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polychelants for radiotherapy and diagnostic imaging)

IT 10138-52-0DP, Gadolinium trichloride, complexes with polychelates, conjugates with biol. mols. 25104-18-1DP, Poly(L-lysine), reaction products with DOTA derivs. and gadolinium 38000-06-5DP, Poly(L-lysine), reaction products with DOTA derivs. and gadolinium 134246-35-8DP, complexes with gadolinium, conjugates with serum albumin 134314-85-5DP, reaction products with polylysine and gadolinium 134314-86-6DP, reaction products with polylysine and gadolinium 134314-86-6P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(polychelants for radiotherapy and diagnostic imaging)

IT 7439-89-6D, Iron, complexes with polychelates, conjugates with biomols., biological studies 7439-92-1D, Lead element, complexes with polychelates, conjugates with biomols. 7439-96-5D, Manganese, complexes with polychelates, conjugates with biomols., biological studies 7439-97-6D, Mercury element, complexes with polychelates, conjugates with biomols. 7440-04-2D, Osmium, complexes with polychelates, conjugates with biomols. 7440-33-7D, Tungsten element, complexes with polychelates, conjugates with biomols. 7440-48-4D, Cobalt, complexes with polychelates, conjugates with biomols., biological studies 7440-58-6D, Hafnium element, complexes with polychelates, conjugates with biomols. **7440-67-7D, Zirconium** element, complexes with polychelates, conjugates with biomols. 7440-69-9D, Bismuth element, complexes with polychelates, conjugates with biomols. 10098-91-6D, yttrium-90, complexes with polychelates, conjugates with biomols., biological studies 13981-25-4D, copper-64, complexes with polychelates, conjugates with biomols., biological studies 13982-36-0D, yttrium-88, complexes with polychelates, conjugates with biomols., biological studies 14133-76-7D, technetium-99, complexes with polychelates, conjugates with biomols., biological studies 14378-26-8D, rhenium-188, complexes with polychelates, conjugates with biomols., biological studies 14687-25-3D, lead-203, complexes with polychelates, conjugates with biomols., biological studies 14733-03-0D, bismuth-214, complexes with polychelates, conjugates with biomols., biological studies 14998-63-1D, rhenium-186, complexes with polychelates, conjugates with biomols., biological studies 15229-37-5D, bismuth-211, complexes with polychelates, conjugates with biomols., biological studies 15750-15-9D, indium-111, complexes with polychelates, conjugates with biomols., biological studies 15757-14-9D, gallium-68, complexes with polychelates, conjugates with biomols., biological studies 15757-86-5D, copper-67, complexes with polychelates, conjugates with biomols., biological studies 15766-00-4D, samarium-153, complexes with polychelates, conjugates with biomols., biological studies 15776-20-2D, bismuth-213, complexes with polychelates, conjugates with biomols., biological studies 63413-08-1D, Sepulchrate, derivs.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polychelants for radiotherapy and diagnostic imaging)

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) Alvarez; US 4741900 1988 HCAPLUS
(2) Gansow; US 4923985 1990 HCAPLUS
(3) Gries; US 4647447 1987 HCAPLUS
(4) Krejcarek; Biochemical and Biophysical Research Comm 1977, V77, P581 HCAPLUS
(5) Meares; US 4678667 1987 HCAPLUS
(6) Ranney; US 5155215 1992 HCAPLUS
(7) Sieving; US 5364615 1994 HCAPLUS
(8) Tomalia; US 5338532 1994 HCAPLUS
(9) Tomalia; US 5527524 1996 HCAPLUS

L80 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

AN 1995:278505 HCAPLUS
DN 122:64461
ED Entered STN: 07 Jan 1995
TI Calcification-resistant materials and methods of making them through use of multivalent cations
IN Levy, Robert J.; Sintov, Amnon
PA University of Michigan, The Board of Regents, USA
SO U.S., 11 pp. Cont.-in-part of U.S. Ser. No. 515,484, abandoned.
CODEN: USXXAM
DT Patent
LA English
IC ICM A61L017-00
ICS C14C003-00; A61F002-06
NCL 008094110
CC 63-7 (Pharmaceuticals)
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
PI	US 5368608	A	19941129	US 1991-689652	19910423	<--
	US 5094661	A	19920310	US 1988-176789	19880401	<--
	US 5746775	A	19980505	US 1993-140722	19931021	<--
	US 5679112	A	19971021	US 1994-345658	19941128	<--
PRAI	US 1988-176789	A2	19880401	<--		
	US 1990-515484	B2	19900430	<--		
	US 1991-689652	A2	19910423	<--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES	
US 5368608	ICM	A61L017-00	
	ICS	C14C003-00; A61F002-06	
	NCL	008094110	
US 5368608	ECLA	A61L027/36; A61L027/50; A61L027/54	<--
US 5746775	ECLA	A61L027/36; A61L027/50; A61L027/54	<--
US 5679112	ECLA	A61L027/36; A61L027/50; A61L027/54	<--

AB Bioprosthetic materials, either natural or synthetic, are treated with trivalent **aluminum** or iron cations, or salts, to prevent in vivo calcification. Such bioprosthetic materials include porcine aortic valve leaflets, bovine pericardium, aortic homografts, biocompatible elastomers, and the like which are intended for invasive, or in-dwelling use in a human or animal body. Simple incubation of the natural bioprosthetic materials in an ion-containing solution, such as aqueous AlCl3 or FeCl3, prior to implantation has been found to inhibit calcification of the biomaterial over a prolonged period, and to do so without adverse side effects. Incorporation of an **aluminum**-containing compound into the formulation for polymers, such as polyurethane, has also been found to inhibit calcification with no adverse side effects.

ST calcification resistant biomaterial cation
IT Calcification
Cations
Prosthetic materials and Prosthetics
Transplant and Transplantation
(calcification-resistant materials and preparation using multivalent cations)
IT Polyamides, biological studies
Polycarbonates, biological studies
Polyesters, biological studies
Polysulfones, biological studies
Siloxanes and Silicones, biological studies
Urethane polymers, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcification-resistant materials and preparation using multivalent cations)
IT 77-92-9, Citric acid, biological studies 142-03-0 555-31-7, **Aluminum** isopropoxide 555-35-1, **Aluminum** palmitate 637-12-7, **Aluminum** stearate 688-37-9, **Aluminum** oleate 814-87-9, **Aluminum** oxalate 994-36-5, Sodium citrate 1327-43-1, **Aluminum** magnesium silicate 1335-30-4, **Aluminum** silicate 1344-28-1, **Aluminum** oxide, biological studies 2809-21-4, EHDP 7446-70-0, **Aluminum** chloride, biological studies 7705-08-0, Ferric chloride, biological studies 7784-22-7, **Aluminum** hypophosphite 7784-30-7, **Aluminum** phosphate 9002-84-0, PTFE 9002-86-2, PVC 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6, Polystyrene 9004-35-7, Cellulose acetate 9011-14-7, Polymethyl methacrylate 9016-00-6, Polydimethylsiloxane 10024-42-7, **Aluminum** sodium sulfate 10043-01-3, **Aluminum** sulfate 13473-90-0,

Aluminum nitrate 15007-61-1, **Aluminum** potassium sulfate 15477-33-5, **Aluminum** chlorate 18917-91-4, **Aluminum** lactate 21645-51-2, **Aluminum** hydroxide, biological studies 24937-78-8, EVA 40391-99-9
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcification-resistant materials and preparation using multivalent cations)

L80 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
AN **1994:404155** HCAPLUS
DN 121:4155
ED Entered STN: 09 Jul 1994
TI Radiolabeled compositions containing a calcific matrix and their use for treatment of rheumatoid arthritis
IN McMillan, Kenneth; Simon, Jaime
PA Dow Chemical Co., USA
SO U.S., 7 pp. Cont.-in-part of U.S. 5,137,709.
CODEN: USXXAM
DT **Patent**
LA English
IC ICM A61K043-00
ICS A61M036-14; A61N005-00
NCL 424001290
CC 8-9 (Radiation Biochemistry)
Section cross-reference(s): 15, 78
FAN.CNT 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 5300281	A	19940405	US 1992-906998	19920701 <--
US 5137709	A	19920811	US 1991-656397	19910215 <--
PRAI US 1991-656397	A2	19910215 <--		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
US 5300281	ICM	A61K043-00
	ICS	A61M036-14; A61N005-00
	NCL	424001290

AB Radioactive compns. containing a calcific matrix and methods for using the compns. for therapeutic radiation treatment including rheumatoid arthritis are disclosed. A layered mixed metal hydroxide (LMMH) was prepared from MgCl2, AlCl3, and NH4OH. The LMMH was added to a hydroxylapatite/153Sm mixture and the mixture was allowed to sit for 10 min before injection into the synovium of a rabbit. No leakage of radioactivity from the synovium was observed
ST radiolabel calcific matrix rheumatoid arthritis treatment; samarium radiolabel hydroxylapatite synovium target
IT Radioelements, biological studies
RL: BIOL (Biological study)
(calcific matrix with sorbed, for radiation ablation treatment of rheumatoid arthritis)
IT Lime (chemical)
RL: BIOL (Biological study)
(calcific matrix, radionuclide sorbed on, for radiation ablation treatment of rheumatoid arthritis)
IT Radiotherapy
(of rheumatoid arthritis, by ablation with radiolabeled calcific matrix)
IT Hydroxides
RL: BIOL (Biological study)
(radiolabeled calcific matrix containing, for radiation ablation treatment of rheumatoid arthritis)
IT Synovial membrane
(radiolabeled calcific matrix targeting, for radiation ablation treatment of rheumatoid arthritis)
IT Coordination compounds
RL: BIOL (Biological study)
(chelates, radiolabeled calcific matrix containing, for radiation ablation treatment of rheumatoid arthritis)
IT Radioelements, biological studies
RL: BIOL (Biological study)
(complexes, with chelator, calcific matrix containing, for radiation ablation treatment of rheumatoid arthritis)
IT **1429-50-1D**, Ethylenediaminetetramethylenephosphonic acid, radionuclide complexes 1984-15-2D, Methylenediphosphonic acid, radionuclide complexes **2809-21-4D**, Hydroxyethanediphosphonic acid, radionuclide complexes 15468-10-7D, Hydroxymethylenediphosphonic

acid, radionuclide complexes 36465-90-4D, Diphosphonic acid, complexes witn radionuclide 91987-74-5D, radionuclide complexes
RL: BIOL (Biological study)
(calcific matrix containing, for radiation ablation treatment of rheumatoid arthritis)

IT 10098-91-6, Yttrium-90, biological studies 13967-65-2, Holmium-166, biological studies 13981-28-7, Lanthanum-140, biological studies 14041-42-0, Gadolinium-159, biological studies 14041-44-2, Ytterbium-175, biological studies 14265-75-9, Lutetium-177, biological studies 14378-26-8, Rhenium-188, biological studies 14391-96-9, Scandium-47, biological studies 14998-63-1, Rhenium-186, biological studies 15766-00-4, Samarium-153, biological studies
RL: BIOL (Biological study)
(calcific matrix with sorbed, for radiation ablation treatment of rheumatoid arthritis)

IT 1306-06-5D, Hydroxylapatite, radiolabeled
RL: BIOL (Biological study)
(for rheumatoid arthritis radiation ablation treatment)

IT 14191-71-0, Indium-115, biological studies
RL: BIOL (Biological study)
(metastable, calcific matrix with sorbed, for radiation ablation treatment of rheumatoid arthritis)

IT 106804-36-8P, **Aluminum** magnesium chloride hydroxide (AlMgCl0.3(OH)4.7)
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as layered mixed metal hydroxide, radiolabeled composition containing hydroxylapatite and, for radiation ablation treatment of rheumatoid arthritis)

IT 1336-21-6, Ammonium hydroxide 7786-30-3, Magnesium chloride, reactions 12125-02-9, Ammonium chloride, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, in preparation of layered mixed metal hydroxide)

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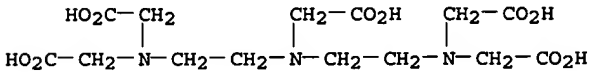
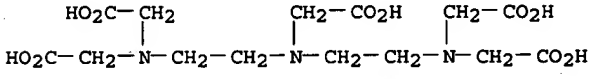
L80 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN

IT **67-43-6, Diethylenetriamine pentaacetic acid 67-43-6D, Diethylenetriamine pentaacetic acid, salts 15827-60-8 15827-60-8D**, salts
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
(chelating agent; regeneration of spent supported metal catalysts)

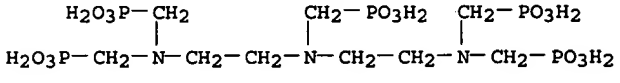
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

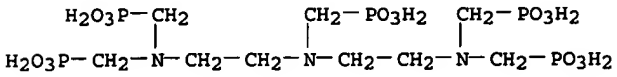


RN 15827-60-8 HCAPLUS
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)

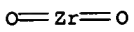


RN 15827-60-8 HCAPLUS
CN Phosphonic acid, [[(phosphonomethyl)imino]bis[2,1-

ethanediylnitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



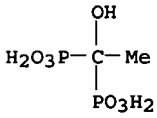
IT **1314-23-4**, Zirconia, uses **7429-90-5**, **Aluminum**, uses
RL: CAT (Catalyst use); CPS (Chemical process); PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process); USES (Uses)
(regeneration of spent supported metal catalysts)
RN 1314-23-4 HCAPLUS
CN Zirconium oxide (ZrO2) (8CI, 9CI) (CA INDEX NAME)



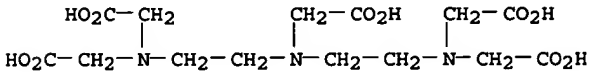
RN 7429-90-5 HCAPLUS
CN Aluminum (8CI, 9CI) (CA INDEX NAME)

Al

L80 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
IT **2809-21-4**
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process)
(scale inhibitor; method for processing returns from oil and gas wells that have been treated with introduced fluids)
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L80 ANSWER 3 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
IT **67-43-6DP**, **DTPA**, reaction with polylysine, complexes with gadolinium, conjugates with serum albumin
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(polychelants for radiotherapy and diagnostic imaging)
RN 67-43-6 HCAPLUS
CN Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]- (7CI, 8CI, 9CI) (CA INDEX NAME)

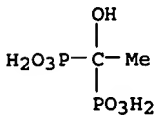


IT **7440-67-7D**, **Zirconium** element, complexes with polychelates, conjugates with biomols.
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polychelants for radiotherapy and diagnostic imaging)
RN 7440-67-7 HCAPLUS
CN Zirconium (8CI, 9CI) (CA INDEX NAME)

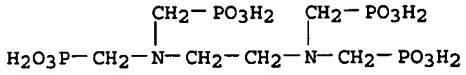
Zr

L80 ANSWER 4 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
IT **2809-21-4**, EHDP

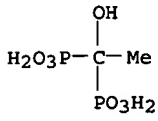
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcification-resistant materials and preparation using multivalent cations)
RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



L80 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2004 ACS on STN
IT **1429-50-1D**, Ethylenediaminetetramethylenephosphonic acid, radionuclide complexes **2809-21-4D**, Hydroxyethanediphosphonic acid, radionuclide complexes
RL: BIOL (Biological study)
(calcific matrix containing, for radiation ablation treatment of rheumatoid arthritis)
RN 1429-50-1 HCAPLUS
CN Phosphonic acid, [1,2-ethanediylbis[nitrilobis(methylene)]]tetrakis- (9CI) (CA INDEX NAME)



RN 2809-21-4 HCAPLUS
CN Phosphonic acid, (1-hydroxyethylidene)bis- (9CI) (CA INDEX NAME)



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